



BIOLOGY

NEET & AIIMS

TEST 6

Example

1. Immunity which is not acquired after birth and is birth right of all individuals in a particular species is known as

A. Cell mediated immunity

B. Humoral immunity

C. Acquired immunity

D. Innate immunity

Answer:



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2. The two key concepts of Darwinian theory of evolution are

A. Analogy and homology

B. Divergent and convergent evolution

C. Convergence and adaptive radiation

D. Branching descent and natural selection

Answer:



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3. Select the mismatch

A. Skin and mucous membrane - Physical barriers

B. HCl in stomach - Physiological barrier

C. Macrophages - Cellular barrier

D. Natural killer cells- Cytokine barrier

Answer:



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4. Black water fever is caused by:

A. Nitrate pollution in water

B. Infection of *Leishmania donovani*

C. Infection by sporozoan *Plasmodium*

D. Infection of *Yersinia pestis*

Answer:



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5. The wood is actually a.....

A. Secondary xylem

B. Secondary phloem

C. Primary xylem

D. Primary phloem

Answer:



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6. Metaxylem

A. Is first formed xylem

B. Comprises of larger and borader vessels

C. Is made up of smaller and narrower vessels

D. Has vessels without wall thickenings

Answer:



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7. Read the following statements and choose the correct option. A. In maize stem, endodermis is present between general cortex and pericycle. B. Bundle sheath present around

the vascular bundles of a monocot stem consists of sclerenchymatous cells.

- A. Only A is correct
- B. Only B is correct
- C. Both A and B are correct
- D. Both A and B are incorrect

Answer:



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8. Which of the following is a part of periderm? a. Cork b. Secondary phloem c. Intrafascicular cambium d. Primary xylem

A. Only a

B. Both a and b

C. Only c

D. Both c and d

Answer:



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9. heart wood differs from sapwood in

A. Being lighter in colour

B. Being actively involved in conduction of
water

C. Providing mechanical support to the
stem and in not conducting water

D. Having lignified cell walls of tracheids

Answer:



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10. In a monocot root

A. Formation of entire vascular cambium
takes place by the cells of pericycle

B. Hypodermis is absent

C. Pith is small or inconspicuous

D. Endodermis is not distinct

Answer:



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11. Starch sheath is the innermost layer of the cortex in a

- A. Dicot root
- B. Monocot stem
- C. Monocot root
- D. Dicot stem

Answer:



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12. The parenchymatous cells which lie between the xylem and phloem, seen in a section of dicot root are called

- A. Medullary rays
- B. Bast fibres
- C. Conjunctive tissues
- D. Secondary tissues

Answer:



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13. In a dorsiventral leaf, the vascular bundle is

- A. Radial and closed
- B. Conjoint and closed
- C. Conjoint and open
- D. Radial and open

Answer:



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14. Select the odd one w.r.t. ground tissue system is

A. Epidermis

B. Pith

C. Pericycle

D. Cortex

Answer:



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15. In most of the monocotyledons

- A. Companion cells are non-nucleated
- B. Phloem parenchyma is absent
- C. The cell wall of phloem fibres is thin
- D. Vessels are absent

Answer:



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16. Read the following statement and choose the correct option. A. The vessel cells are devoid of protoplasm. B. Vessel members are interconnected through perforations in their common walls.

A. Only A is correct

B. Only B is correct

C. Both A and B are correct

D. Both A and B are incorrect

Answer:



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17. Which of the following tissues is made up of thin walled cells?

A. Sclerenchyma

B. Parenchyma

C. Sclereid

D. Xylem fibre

Answer:



18. Meristematic tissue responsible for increase in girth of tree trunk is

- A. Partly primary and partly secondary in origin
- B. Apical meristem
- C. Completely secondary
- D. Intercalary meristem

Answer:



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19. Vascular bundles are scattered and closed in

A. Barley root

B. Barley stem

C. Wheat root

D. Gram stem

Answer:



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20. The only dead element of phloem is

- A. Sieve tube element
- B. Companion cell
- C. Bast fibre
- D. Phloem parenchyme

Answer:



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21. The epidermis of an isobilateral leaf, a) Provide protection, b) Performs gaseous exchange, c) Is made up of parenchymatous cells, d) Possesses stomata only on adaxial surface

A. only a is correct

B. only a and c is correct

C. only b is correct

D. only d is correct

Answer:



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22. Identify the incorrectly matched pair

A. Tyloses:Heartwood

B. Lenticels:Exchange of gases

C. Bulliform cells:Colourful and small

D. Pith:Medulla

Answer:



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23. Which of the following functions is not performed by xylem?

A. To help in the storage of food

B. To provide mechanical strength

C. Conduction of water and minerals

D. Transportation of food to all parts of the
plant

Answer:



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24. Most of the algae show haplontic life cycle pattern and Polysiphonia shows

A. Haplo-diplontic life cycle

B. Diplontic life cycle

C. Haplontic life cycle

D. One haploid stage throughout its life cycle

Answer:





25. An event unique to angiosperms involves syngamy and triple fusion. The total number of haploid nuclei involved in double fertilization is

- A. Two
- B. Three
- C. Four
- D. Five

Answer:



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26. Marchantia possesses

- A. Archegoniophore
- B. Gemma cup
- C. Free living sporophyte
- D. Both (1) & (2)

Answer:



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27. Archegonia are female sex organs of
a)Amphibians of plant kingdom,b)Sequoia,c)
Equisetum,d)Angiosperms

- A. only a and c
- B. only b and c
- C. only a and d
- D. only a,b and c

Answer:



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28. _____ is a major source of agar that is obtained from its cell wall. Complete the sentence by choosing the correct option.

A. Porphyra

B. Gelidium

C. Sphagnum

D. Ulothrix

Answer:



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29. A fresh water colonial green alga is

A. Chlamydomonas

B. Volvox

C. Fucus

D. Laminaria

Answer:



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30. Green algae differ from brown algae in having

A. Cellulose in their cell wall

B. Chlorophyll'a'

C. Pyrenoids

D. Motile stage

Answer:



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31. Select the features which are not seen in algae. a) Variable shapes of chloroplasts, b) Embryo formation, c) Vascular system, d) Non-jacketed sex organs

A. a and b

B. b and c

C. c and d

D. a and d

Answer:



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32. In embryo sac of flowering plants, egg apparatus is found which consist of

- A. one egg+two synergids cells
- B. one oosphere+two synergids
- C. one antipodal+two polar nuclei
- D. one secondary nucleus+two synergids

Answer:



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33. all of the following characteristics are essential for the formation of seeds except

A. formation of dependent female gametophyte

B. Heterospory

C. requirement of water for fertilisation

D. retention of megaphone in megasporangium until embryo development

Answer:



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34. read the given statement. " sporophyte is a parasite over gametophyte". Above statement is true

A. selaginella

B. cycas

C. polytrichum

D. lycopodium

Answer:



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35. Homospory is a condition where all the spores are of similar kind these statements implies for a. some bryophytes, b. all pteridophytes, c. All bryophytes, d. majority of the pteridophytes

A. a and b

B. b and c

C. c and d

D. a and d

Answer:



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36. read the following statement and choose the correct option. A. microspore and megaspores are produced in the same lax in gymnosperm. B. Lax represents compact

strobillus which bears both microsporophylls and megasporophytis together

- A. only A is correct
- B. only B is correct
- C. both A & B are incorrect
- D. Both A & B are correct

Answer:



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37. select the plant which has vascular tissues but lacks seeds

A. pteris

B. Riccia

C. Cycas

D. Cedrus

Answer:



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38. match the following columns and choose the correct option-

Column I (a) smallest flowering plant, (b) tallest gymnosperma, (c) sargassum, (d) Selaginella

Column II (i) microphylls (ii) chlorophyll c (iii) wolfia (iv) sequoia

A. a(iv) b(iii) c(i) d(ii)

B. a(iii) b(iv) c(ii) d(i)

C. a(ii) b(iv) c(i) d(iii)

D. a(i) b(ii) c(iii) d(iv)

Answer:



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39. fill in the blanks by choosing the correct option. The sporophyte in ___A___ is more development than of in ___B___

A. A. Ricca B. Funaria

B. A. Marchantia B. Polytrichum

C. A. polytrichum B. Ricca

D. A. Porella B. Polytrichum

Answer:



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40. the male gametophyte is not independent
in

A. mustard

B. marchantia

C. ginkgo

D. Both (1) and (3)

Answer:



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41. protonema is a mosses and prothallus for ferns resembles with each other in

- A. bearing diploid sex organs
- B. Being photosynthetic
- C. producing haploid spores
- D. Being filamentous and without rhizoids

Answer:



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42. read the following statement and choose the correct. a. conifers are adapted to tolerate extreme environmental conditions because of thick cuticle. b. male gametes are flagellated in polysiphonia. c. Sphangnum is related to peat formation. d. Filamentous algae multiply by fragmentation.

A. a,b and c b,c and d

B. b,c and d

C. only a and c

D. a, c and d

Answer:



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43. all of the following differences between gymnosperms and angiosperms are correct, except

A. Gymnosperms- ovals and naked,
Angiosperms- evils remained enclosed
within the ovary wall

B. Gymnosperms- the endosperm is formed
before fertilization, Angiosperms-
endosperm is formed after fertilization

C. Gymnosperms- they are call softwood
spermatophytes Angiospems- they are
known as hard wood spermatophytes

D. Gymnosperms- They lack cambium and xylem fibres, Angiosperms- they lack thick walled tracheids and phloem fibres

Answer:



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44. which one of the following pairs is wrongly matched?

A. pinus: Monoecious

B. Salvinia : cord moss

C. Funaria : cord moss

D. Ginkgo: Archegonia

Answer:



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45. Chlamydomonas shows both isogamous as well as anisogamous type of reproduction and Fucus exhibits

A. Only oogamy

B. Only isogamy

C. Both isogamy and oogamy

D. Isogamy as well as anisogamy

Answer:



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46. Anisogametes can differ in a. Structure, b. size, c. Behaviour or function

A. Only a

B. Only b

C. Only a and c

D. All a,b and c

Answer:



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47. select the incorrect match

A. simple goitre- deficiency of iodine in diet

B. Thymosin- training school of T

lymphocytes

C. Exophthalmic goitre- Grave's disease

D. Myxedema- Hyperthyroidism during
childhood in males

Answer:



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48. which of the following is mismatched?

A. vitreous humour- present between lens
and retina

B. Rhodopsin- ' visual purple' found in rods

C. Scala media- filled with endolymph

D. middle ear cavity- connected with scalar
vestibuli through round window

Answer:



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49. select the incorrect statement w.r.t full contraction muscle fibre.

- A. length of sarcomere become equal to the length of a band
- B. increase in overlap zone is seen
- C. length of H zone and I band increases
- D. length of actin and myosin filaments remains unchanged

Answer:





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50. Pathway travelled by an impulse in a reflex action is known as reflex arc represented by a flow chart by which option?

A. sensory neuron-receptor-motor neuron--
CNS-effector

B. receptor - sensory neuron-CNS-motor
neuron-effector

C. receptor -sensory neuron-motor neuron-

CNS -effector

D. effector -sensory neuron-CNS -motor

neuron - receptor

Answer:



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51. read the following sentences carefully and select the incorrect statement

A. water soluble hormones produces secondary messengers and accelerate biochemical reactions in the cell

B. receptors for fat soluble hormones are intracellular in location

C. thyroxine hormone with specific intracellular receptor regulates the gene expression

D. cGMP is secondary messenger for adrenaline that interact with

intracellular or nuclear receptors

Answer:



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52. Motor speech area called Broca's area is suitable in with which lobe of cerebrum?

A. frontal

B. parietal

C. Temporal

D. Occipital

Answer:



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53. select the correct match

A. A- band- presence of myosin filament

only

B. sarcomere- region between two 'H' zones

C. I band- structural unit of muscle fibres

D. m line- divides a band into two equal halves

Answer:



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54. which of the following are considered as chemoreceptors in humans?

A. gustatoreceptors present on tongue

B. olfactory receptors present in gut

C. organ of corti in internal ear

D. Meissners's Corpuscles present in skin

Answer:



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55. Underproduction of hormones by adrenal cortex alters carbohydrate metabolism causing acute weakness and fatigue leading to a disease called

- A. Addison's disease
- B. Cushing's syndrome
- C. Conn's syndrome
- D. Adrenal virilism

Answer:



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56. select the odd one wrt hormones of fight or flight

- A. piloerection
- B. pupillary dilation
- C. decrease in heart rate
- D. increase in respiratory rate

Answer:



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57. glucagon is considered a hyperglycemic hormone because of all expect

- A. performs glycogenolysis
- B. stimulates glyconeogenesis
- C. inhibits cellular uptake of glucose
- D. acts synergistically to insulin

Answer:



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58. select in correct match wrt hormone of gastro intestinal tract

A. GIP- stimulates gastric juice secretion

B. CCK- target both pancreas and gall bladder

C. gastrin- stimulates HCl and Pepsinogen secretion

D. Secretin- Stimulates secretions from exocrine part of pancreas

Answer:



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59. Which of the following structure does not participate in hearing?

A. pinna

B. cochlea

C. cristae

D. organ of corti

Answer:



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60. in electrical synapse, impulse from presynaptic membrane reaches post-synaptic membrane through

A. Neurotransmitter released in synaptic cleft

B. Through gap junctions present between two synaptic membranes

C. Electrons that jump directly from presynaptic membrane to post-synaptic membrane

D. Opening of K^+ channels in post - synaptic membrane

Answer:



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61. Read the following statements Statement-A: Muscle fibres exhibit special properties like excitability, contractibility, extensibility and elasticity. Statement-B: All striated muscle

fibres are voluntary in nature. Select the correct option

A. Both statements A and B are correct.

B. both statements A and B are incorrect

C. Statement A is correct but Statement B is incorrect.

D. Statement B is correct but Statement A is incorrect.

Answer:



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62. A type of neuron with one axon and one dendrite is found in the human in

- A. Embryonic stages
- B. Retina of eye
- C. Cerebral cortex
- D. Dorsal root ganglion of spinal cord

Answer:



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63. In relation with movement and locomotion, which of the following statement is incorrect?

A. In Paramecium, cilia are responsible for both movement of food and locomotion

B. With the help of tentacles, Hydra can capture its prey and locomotes from one place to another.

C. All movements are locomotion but all locomotions are not movement.

D. Human sperms exhibit flagellar

movement.

Answer:



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64. Cortisol can perform all the following functions except

A. Lipolysis and proteolysis

B. Gluconeogenesis

C. Immunosuppressive hormone and

stimulates erythropoiesis

D. Inflammatory response

Answer:



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65. Opening of which of the following type of channels is responsible for repolarisation of an axonal membrane?

A. Na^+ leaky channels

B. K^+ leaky channels

C. Voltage gated Na^+ channels

D. Voltage gated K^+ channels

Answer:



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66. Choose the incorrect statement w. r. t. thymus gland.

- A. Situated anterior to thyroid gland
- B. Participates in cell mediated immunity
- C. Secretes peptide hormone thymosins
- D. Begins to degenerate as the age increases

Answer:



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67. Select the mismatch.

- A. Pivot joint - Between atlas and axis
vertebrae
- B. Hinge joint - Between phalanges
- C. Ball and socket joint - Between femur
and acetabulum
- D. Suture- Between adjacent vertebrae

Answer:



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68. Muscularis externa of alimentary canal is characterised by

A. Striated, branched, involuntary muscle fibres

B. Non-Striated, involuntary, fusiform shaped muscle fibres

C. Non-Striated, multinucleated, voluntary muscle fibres

D. striated, voluntary, branched muscle fibres

Answer:



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69. Match Column A with Column B and select correct choice in the following given option:

(a) yellow spot(Col- A) (i) olfaction(Col -B). (b) vestibular apparatus (Col-A) (ii) Shock absorber(Col-B). (c) CSF (Col-A) (iii)Balance(Col-

B). (d) Scheneiderian membrane(Col- A) (iv)

Contains only cones for vision.

A. a(i), b(ii), c(iii), d(iv)

B. a(iv), b(iii), c(ii), d(i)

C. a(iii), b(iv), c(ii), d(i)

D. a(i), b(ii), c(iv), d(iii)

Answer:



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70. Scapula is a large triangular flat bone, situated in the A part of the thorax between the B and C ribs. Select the option which fill the blank A,B and C correctly:

- A. Dorsal, Second and Fifth
- B. Ventral, First and Seventh
- C. Ventral, Second and Sixth
- D. Dorsal, Second and Seventh

Answer:



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71. Select the Mismatch.

- A. ANF - Maintains blood Volume
- B. Parathormone - Hypercalcemic hormone
- C. Thyrocalcitonin - Hypocalcemic hormone
- D. Progesterone - Follicular growth

Answer:



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72. Select the correct match w.r.t same number of bones.

A. Cranial bones - Facial bones

B. Carpals of one limb - Tarsals of one limb

C. Cranial bones - Carpals of one wrist

D. Vertebrae - Skull bones

Answer:



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73. Select the correct option with hormones which are poured into veins.

A. Insulin, glucagon, growth hormone

B. Vasopressin, insulin, prolactin

C. Oxytocin, vasopressin, insulin

D. GnRH, PRH and TRH

Answer:



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74. Hypothalamus contains a number of centres and control all of the following except

A. Urge for eating

B. Body temperature

C. Sexual drive

D. Conversion of short term to long term
memory

Answer:



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75. Select the odd one w.r.t cranial bone

A. Parietal

B. Palatine

C. Sphenoid

D. Frontal

Answer:



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76. A motor neuron along with muscle fibres connected to it constitutes a

- A. Motor-end plate
- B. Motor unit
- C. Neuromuscular junction
- D. Synaptic Cleft

Answer:



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77. All of the following are parts of brain stem except

A. Hypothalamus

B. Midbrain

C. Pons

D. Medulla Oblongata

Answer:



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78. All of the following are functions of medulla oblongata except

- A. Serve as vomiting reflex centre
- B. Act as cardiovascular reflex centre
- C. To regulate respiratory rhythm
- D. Centre for safety

Answer:



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79. a growing baby is characterized by stunted growth, mental retardation, low intelligence quotient, abnormal skin, deaf-mutism etc. it is caused due to

A. deficiency of I_2 and thyroxine in adulthood

B. hypothyroidism during pregnancy

C. deficiency of growth hormone in growing baby

D. deficiency of growth hormone in during pregnancy

Answer:



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80. select endocrine gland which stores and release its hormone in active form

A. adrenal gland

B. anterior pituitary

C. neurohypophysis of pituitary

D. thyroid gland

Answer:



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81. which of the following is correct statement for skeletal muscle?

A. tropomyosin cannot cover myosin

binding site on actin

B. tropomyosin is a contractile protein

C. are complex protein troponin is
composed of four different subunit

D. the globular head of meromyosin acts as
enzyme ATPase

Answer:



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82. a globular head and short arm of each meromyosin together constitutes

A. LMM

B. cross arm

C. cross bridge

D. tail

Answer:



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83. select the incorrect statement

A. autonomous nervous system is a part of
CNS

B. automatic nervous system is a part of
PNS

C. somatic nervous system relays impulses
from CNS to skeletal muscle

D. sensory impulses enter spinal cord
through dorsal root ganglia

Answer:



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84. neurons are responsible for

- A. formation of myelin sheath in CNS
- B. transmission of subthreshold stimulus
- C. responding to subthreshold stimulus
- D. Depolarisation upon receiving threshold stimulus

Answer:



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85. select the correct match

A. follicular sale of thyroid gland - PTH

B. alpha-cells of islets of Langerhans -
insulin

C. beta-cells of islets of Langerhans -
Glucagon

D. Juxtaglomerular cells of kidney -

Erythropoietin

Answer:



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86. which of the following is considered as anatomical unit of muscle?

A. sarcomere

B. Fasciculus

C. Muscle fibre

D. Fascia

Answer:



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87. biomolecules considered as an intracellular messenger is

A. DNA

B. mRNA

C. Hormone

D. Enzyme

Answer:



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88. select the hormone which controls the diurnal rhythm of our body

A. melanin

B. melatonin

C. MSH

D. Cortisol

Answer:



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89. in comparison to red muscle fibre, white muscle fibres

A. contain more mitochondria in number

B. have more blood capillaries

C. possess more sarcoplasmic reticular

D. contain high content of red coloured
oxygen storing pigment

Answer:



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90. Activated sludge contains

A. Aerobic bacteria only

B. Floccs

C. Anaerobic bacteria only

D. Anaerobic fungi and bacteria only

Answer:



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91. The greater BOD (biochemical oxygen demand) of waste water indicates.

A. It's less pollution level

B. It's more pollution level

C. Less amount of organic matter present
in it

D. High level of dissolved oxygen in it

Answer:



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92. Read the following statements and choose the correct option. Statement A: Trichoderma spaces are free living fungi that are very common in root ecosystems. Statement B:

trichoderma species are effective biocontrol agent of several plants pathogens.

- A. Only statement A is correct
- B. Only statement B is correct
- C. Both statements are correct
- D. Both Statement are incorrect

Answer:



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93. Which of the following microbes are used in biological treatment of sewage? (a) Autotrophic bacteria (b) Aerobic bacteria (c) Fungi (d) Heterotrophic bacteria

A. only (a) and (b)

B. only (b) and (c)

C. only (b), (c) and (d)

D. only (a), (b) and (c)

Answer:



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94. Mark the incorrect statement about Nucleopolyhedroviruses.

- A. They are species specific
- B. They have narrow spectrum insecticidal application
- C. They are nucleoprotein particles
- D. They have negative impacts on plants, mammals, fishes and on non targeted

insects also

Answer:



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95. all of the following can be biofertilizer
except

A. Viruses

B. Azotobacter

C. glomus

D. Cyanobacteria

Answer:



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96. An autotrophic microbe which can fix nitrogen is

A. Oscillatoria

B. Rhizobium

C. Frankia

D. Clostridium

Answer:



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97. Toddy is a traditional drink of some parts of South India and is made by fermenting sap from

A. *Abelmoschus manihotland*

B. Palm trees

C. Caryota urens

D. Calotropis

Answer:



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98. For commercial production of Ethanol,
& _____ is used

A. Saccharomyces

B. Candida Lipolytica

C. Streptococcus

D. Aspergillus niger

Answer:



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99. Select the Incorrect statement.

A. Triticale was the first man made cereal
crop

B. Crop plants grown in monoculture are highly prone to pests

C. A wheat variety 'Himgiri' is resistant against prone to pests

D. Mutations can be induced by infrared radiation

Answer:



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100. During transcription, the binding of RNA polymerase to the DNA is the prerequisite for the process to start.

In prokaryotes this site,

(a) Consists of 6 nucleotide bases,

(b) Is TATAAT,

(c) Is located 10 bp upstream from the start point.

(d) Is present in promoter region

A. only (a) and (b) are correct

B. only (b) and (c) are correct

C. only (c) and (b) are correct

D. all (a) (b) (c) and (d) are correct

Answer:



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101. Griffith performed an experiment where mice were killed when injected with a mixture of heat killed S-trained and live R-string of Streptococcus, but mice were alive when the

strains were injected separately. mice were killed because

A. Proteins from heat killed S strain made R strain virulent

B. RNA from heat killed S strain made R strain virulent

C. Both DNA and RNA from heat killed strain transformed the R strain and made it Pathogenic

D. DNA from heat killed S strain transform
the R strain and made it virulent

Answer:



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102. match the columns and choose the
correct option

a. helicase

b. DNA ligase

c. Primase

d. aminoacyl t-RNA synthetase

i.joins DNA fragment ii.synthesis of RNA

iii.unwinds DNA helix iv. Activation of amino acid

A. a(iii), b(iv), c(ii), d(i)

B. a(iii), b(i), c(iv), d(ii)

C. a(iii), b(i), c(ii), d(iv)

D. a(iv), b(iii), c(ii), d(i)

Answer:



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103. Bacteria which are utilised to produce gobar gas are

A. Aerobic and heterotrophic

B. aerobic and chemoautotrophic

C. Anaerobic and chemoautotrophic

D. Anaerobic and heterotrophic

Answer:



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104. Biogas produced in anaerobic sludge digester is a mixture of

- A. Methane and carbon dioxide only
- B. Hydrogen sulfide and methane only
- C. Methane, carbon dioxide and hydrogen sulphide
- D. Carbon dioxide, methane and oxygen

Answer:



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105. An immunosuppressive agent cyclosporine A is produced

A. Bacterium

B. Fungus

C. Virus

D. Lichens

Answer:



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106. Lactobacillus bacteria convert milk into curd select the correct statement(s) about this bacterium (a) It is heterotrophic (b) it increases the content of of vitamin B_{12} in curd. (c) It fixes nitrogen in leguminous plants.

A. Only (a)

B. Only (b)

C. Both (a) and (b)

D. Both (b) and (c)

Answer:





107. Select the option which correctly fills the blanks. Association of fungi with roots of higher plants is called ___A___ in which fungal partner majorily provides ___B___ to the plants.

A. Lichen (A) Calcium (B)

B. Mycorrhiza(A) Zinc (B)

C. Lichen(A) Phosphorus(B)

D. Mycorrhiza(A) Phosphorus (B)

Answer:



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108. Somatic hybridisation involves fusion of

A. Two plant cells having cell wall

B. Protoplasts of two different plant species

C. A male gamete and a female gamete

D. A female gamete with a somatic cell

Answer:



Watch Video Solution

109. Which of the following parts of a diseased plant is used to obtain healthy plants?

A. Meristem

B. Embryo

C. Leaves

D. branch

Answer:



Watch Video Solution

110. The nutrient medium used for tissue culture does not contain (a) carbon source (b) Inorganic salts (c) plant growth regulators (d) Enzymes (e) vitamins and amino acid

A. only (b), (d) and (e)

B. only (b) and (c)

C. only (d)

D. only a)

Answer:



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111. tropical sugarcane grown in south India

A. had poor sugar content

B. had thicker stems and higher sugar content

C. were originally grown in north india

D. had poor yield

Answer:



Watch Video Solution

112. High yielding and disease resistant wheat varieties which were introduced all over the wheat growing belt of india are

A. jaya and Ranta

B. jaya and kalyan sona

C. sonalika and kalyan sona

D. sonalika and ratna

Answer:



Watch Video Solution

113. Read the following statements and select the correct ones. A. M.S. Swaminathan is considered as father of white revolution. B. Genetic variability is the root of any breeding

programme. C. cross hybridisation is a very time consuming and tedious process.

A. Only A and B

B. only B and C

C. only B

D. All A,B and C

Answer:



Watch Video Solution

114. HIV

A. does not follow the central dogma of molecular biology

B. has ds-RNA as its genetic material

C. contains thymine in its genetic material

D. has equal proportions of purines and pyrimidines

Answer:



Watch Video Solution

115. Satellite DNA

- A. codes for proteins which are needed in the chloroplast
- B. codes enzymes for krebs cycle
- C. does not code for proteins
- D. form a little portion of human genome

Answer:



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116. polymorphism in DNA sequence is the basis of which of the following? (a) genetic mapping of human genome (b) DNA fingerprinting (c) similarities among human beings

A. only (a)

B. only (b)

C. only (a) and (b)

D. only (b) and (c)

Answer:



Watch Video Solution

117. The chromosomes which contain maximum and minimum number of genes in human genome are

- A. an autosome and an allosome respectively
- B. an allosome and autosome respectively
- C. both autosomes
- D. both allosomes

Answer:



Watch Video Solution

118. Mutation in a gene which codes for RNA polymerase III makes it non functional which further affects the synthesis of

A. 18S rRNA

B. hn RNA

C. 5S rRNA

D. 5.8S rRNA

Answer:



Watch Video Solution

119. select true (T) or false (F) for the following statements and choose the correct option. A. QB bacteriophage has RNA as genetic material. B. Free 2'OH of RNA makes it more labile and easily degradable. C. The experiment of Hershey and chase gave unequivocal proof that DNA is the genetic material.

A. A (T) B(F) C (T)

B. A (F) B (F) C(T)

C. A (T) B(T) C (T)

D. A(T) B(T) C(T)

Answer:



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120. Heterochromatin is (a) darkly stained region (b) loosely packed chromatin (c) transcriptionally inactive

A. only (a)

B. only(a) and (b)

C. only (b) and (c)

D. only(a) and(c)

Answer:



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121. select the correct match.

A. transformation- Watson and Crick

B. ribozyme - nucleic acid (RNA)

C. HIV - DNA containing virus

D. spliceosomes - translation process

Answer:



Watch Video Solution

122. The experimental proof for semi-conservative replication of DNA was first shown in a

A. meselson and stahi

B. hershey and chase

C. jacob and monod

D. alec jeffreys

Answer:



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123. in prokaryotic translation, the formation of peptide bond between two amino acids is catalysed by a

A. proteinaceous enzyme

B. lysozyme

C. RNA catalyst

D. ribonuclease

Answer:



Watch Video Solution

124. mark the wrong statement.

A. in prokaryotes, transcription and translation occur in the different compartments

B. in eukaryotes, usually structural gene of transcription unit is monocistronic

C. in prokaryotes, the mRNA is produced in the cytoplasm

D. in eukaryotes, the primary transcript undergoes splicing

Answer:



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125. the lac operon of E. coli gets switched on when

- A. repressor binds to the operator
- B. lactose binds to the RNA polymerase
- C. lactose binds to the repressor protein
- D. inducer binds to the operator

Answer:



126. if the anticodon sequence in tRNA is 3' AAA 5', the amino acid carried by it , is

- A. serine
- B. valine
- C. phenylalanine
- D. glutamic acid

Answer:



127. if the sequence of nitrogenous bases of the coding strand of DNA in a transcription unit is 5' ATGHCCAT 3' then the sequence of bases in its RNA transcript would be

A. 3' - AUGGCCAU-5'

B. 3'- UACCGGUA-5'

C. 5'-AUGGCCAU-3'

D. 5'-UACCGGUA-3'

Answer:



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128. While analysing the DNA of an organism, different proportions of bases were obtained as given below Adenine = 28% Guanine = 22% Thymine = 28% Cytosine = 22% . From the above informations it can be generalised that

A. it is a single stranded DNA

B. it is a double stranded DNA and follows
Chargaff's rule

C. it is a double stranded DNA but does not follows chargaff's rule

D. it is single stranded RNA

Answer:



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129. Identify the correct function(s) of RNA. (a) it carries amino acids to ribosomes (b) it us a constituent if ribosomes (c) it carries genetic information from DNA for synthesis of

proteins (d) it plays catalytic role during
proteins synthesis

A. only (a)

B. only(a) and (c)

C. only (b) and (d)

D. all (a), (b) , (c) and (d)

Answer:



Watch Video Solution

130. On one strand of DNA , its discontinuous synthesis is seen, because

A. it is more efficient process

B. DNA polymerase catalyses

polymerisation only in one direction i.e.

5' to 3'

C. it is energy independent process

D. DNA molecule is very long to be

synthesized in a continuous fashion

Answer:



Watch Video Solution

131. Select the true statement(s) for AUG. A. It codes for an amino acid methionine B. It is an initiation codon C. It is a non-degenerate codon

A. Only A

B. Only A and B

C. Only B and C

D. All A, B and C

Answer:



Watch Video Solution

132. Adenosine differs from a nucleotide as it lacks

A. Base

B. Sugar

C. N-glycosidic bond

D. Phosphate group

Answer:



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133. All of the following statements are true for genetic code, except

A. It is unambiguous

B. Codons in mRNA are read in a non-contiguous fashion

C. It is nearly universal

D. It is non-overlapping

Answer:



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134. Black water fever is caused due to

A. Nitrate pollution in water

B. Infection of *Leishmania donovani*

C. Infection by sporozoan *Plasmodium*

D. Infection of Yersinia pestis

Answer:



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135. Select the mismatch.

- A. Skin and mucous membrane-Physical barriers
- B. HCl in stomach-Physiological barrier
- C. Macrophages- Cellular barrier

D. Natural killer cells Cytokine barrier

Answer:



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136. The two key concepts of Darwinian theory of evolution are

A. Analogy and homology

B. Divergent and convergent evolution

C. Convergence and adaptive radiation

D. Branching descent and natural selection

Answer:



Watch Video Solution

137. Immunity which is not acquired after birth and is birth right of all individuals in a particular species is known as

- A. Cell mediated immunity
- B. Humoral immunity

C. Acquired immunity

D. Innate immunity

Answer:



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138. Which amongst the following is the most recent ancestor of existing mammals?

A. Thecodonts

B. Saurapsids

C. Synapsids

D. Therapsids

Answer:



Watch Video Solution

139. Which of the following fossil is considered as missing link between reptiles and birds?

A. Hyracotherium

B. Pteranodon

C. Sphenodon

D. Archaeopteryx

Answer:



Watch Video Solution

140. Introduction of larvivorous fish in stagnant water can prevent the spread of all given diseases except

A. Dengue

B. Diphtheria

C. Chikungunya

D. Filariasis

Answer:



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141. The forelimbs of human, tiger, whale and bat represent

A. Homologous structures

B. Analogous structures

C. Vestigial structures

D. Functional similarity

Answer:



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142. Which of the following event of organic evolution was a turning point that changed the nature of atmosphere of primitive earth?

A. Respiration

B. Chemosynthesis

C. Anoxygenic photosynthesis

D. Oxygenic photosynthesis

Answer:



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143. Presence of tooth buds during embryonic development of birds is an example of

A. Atavism

B. Mutation

C. Ontogeny repeats phylogeny

D. Genetic drift

Answer:



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144. Select the correct option w.r.t. increasing cranial capacity suggested by hominid fossils

A. Homo erectus to Homo habilis to Homo sapiens sapiens to Homo sapiens fossilis

B. Homo habilis to Homo erectus to Homo sapiens fossilis to Homo sapiens sapiens

C. Homo erectus to Homo sapiens neanderthalensis to Homo habilis to Homo sapiens fossilis

D. Homo habilis to Homo sapiens sapiens to Homo erectus to Homo sapiens fossilis

Answer:



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145. Cycads and dicotyledons arose from common ancestor called 'A' that existed on earth during period 'B'. Choose the option which fill the blanks 'A'and 'B'correctly.

A. Zosterophyllum and Triassic

B. Chlorophyta and Silurian

C. Seed ferns and Carboniferous

D. Herbaceous lycopods and Cretaceous

Answer:



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146. Find the incorrect match.

A. Named after fossils found in Australia-

Australopithecines

B. Cave paintings and fossils found in

Europe-CroMagnon man

C. Buried his dead with flowers and tools
and lived in Central Asia-Neanderthal
man

D. First use fire and fossils were found in
Java -Homo erectus

Answer:



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147. Populations of peppered moth *Biston betularia* of England underwent directional selection during and after industrialisation. The selective agent causing the change was/were

A. Man

B. Lichens

C. Toxins from industrial smoke

D. Birds

Answer:



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148. Gene pool of a large population tends to remain stable i.e. in genetic equilibrium in presence of

- A. Random mating
- B. Genetic drift
- C. Large scale migration
- D. Natural selection

Answer:



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149. If the frequency of an allele 'a' in a given large unevolving population is 0.64 then, find out frequency of the other allele 'b' in the same population.

A. 0.64

B. 0.8

C. 0.48

D. 0.36

Answer:



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150. Complete the analogy Anteater : Lemur ::

Numbat : ____ Choose the correct option.

A. Mole

B. Spotted cuscus

C. Flying squirrel

D. Bobcat

Answer:



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151. Read the following statements. Statement A: Jurassic period of Mesozoic era is characterised by gymnosperms as dominant plants and dinosaurs as dominant animals. Statement B: The geological history of earth closely correlates with the biological history of earth.

A. Both statements are incorrect

B. Both statements are correct

C. Statement A is incorrect

D. Statement B is incorrect

Answer:



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152. Select incorrect option given below in relation to cancer.

- A. Cell division and differentiation in cancer cells is not regulated by contact inhibition
- B. They starve normal cells by competing for vital nutrients
- C. Malignant tumors causing cancer are invasive and undergo metastasis
- D. Ionizing radiations like 'X'-rays and y-rays are responsible for transformation of oncogenes into proto-oncogenes.

Answer:



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153. Select true (T) and false (F) in following given statements and choose the correct option given below.(a) Receptors for cannabinoids are present on cardiovascular system of the body (b) Cocaine causes hallucinations in large dosage by stimulating CNS (c)Diacetylmorphinis commonly known as

smack (d) Heroin is a CNS stimulant and increases body functions

A. T(a) F(b) T(c) F(d)

B. F(a) T(b) T(c) F(d)

C. F(a) T(b) F(c) T(d)

D. T(a) T(b) F(c) T(d)

Answer:



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154. Match column-A with column and select the correct option. a.IgG(Column-A) (i) Secretory antibody(Column-B) b. IgA(Column-A) (ii) Largest in size(Column-B) c.IgM(Column-A)(iii) Passes through placenta(Column-B) d. IgE(Column-A) (iv) Allergic response(Column-B)

A. a(i), b(ii), c(ii), d(iv)

B. a(ii) b(i), c(ii), d(iv)

C. a(iv), b(iii), c(ii), d(i)

D. a(i), b(ii), c(i), d(iv)

Answer:



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155. Select the correct statement from options given below.

A. AIDS is a congenital disease caused by enveloped virus

B. Chewing of tobacco stimulate adrenal gland to increases blood pressure

C. Use of contaminated needles for boring

ear pinna cannot spread HIV infection

D. Death from HIV infection can be

completely prevented by use of anti-

retroviral drugs

Answer:



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156. Cigarette smoking may cause all of the following except

A. Emphysema

B. Gastric ulcer

C. Carcinoma of urinary bladder

D. Atelectasis

Answer:



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157. All of the following are side effects of anabolic steroids in male except

- A. Increased aggression
- B. Enhanced spermatogenesis
- C. Premature baldness
- D. Breast enlargement

Answer:



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158. Modern horse, whose fossils are associated with Pleistocene epoch, is

A. Mesohippus

B. Merichippus

C. Equus

D. Pliohippus

Answer:



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159. Bat and insects have no common ancestry but both have functional wings for flight. This adaptation for aerial life indicates

- A. Advance Radiation
- B. Divergent Evolution
- C. Convergent Evolution
- D. Microevolution

Answer:



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160. Lymphocytes which may be considered as connecting link between antibody mediated immunity and cell mediated immunity are

- A. Killer T-cells
- B. Suppressor T-cells
- C. Helper T-cells
- D. B lymphocytes

Answer:



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161. Substance which is not used as an antiallergen is

- A. Epinephrine
- B. Glucocorticoid
- C. Adrenaline
- D. Histamine

Answer:



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162. Children in metro cities of India suffer from allergies and asthma because they are more sensitive to allergens and have low immunity due to

A. Vaccination in early stage

B. Sufficient supply of chemicals like Serotonin

C. Use of different types soaps and shampoos

D. Protected environment provided early in
life

Answer:



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163. Occurrence of similar type of biomolecules in different it group of organisms is called molecular homology. Which of the folowing example does not show molecular homology?

A. RuBisCo in different plants

B. Enzymes of different Krebs cycle in organisms

C. Blood proteins in apes and human

D. Tendril of Pisum and Tendril of Cucurbita

Answer:



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164. According to modern synthetic theory of evolution proposed by Dobzhansky ,all of the following are causes of genetic variability except

A. Gene Mutations

B. Genetic Recombination

C. Changes in chromosome number

D. Natural Selection

Answer:



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165. Mutation theory does not explain :

- A. Theory of Panspermia
- B. Variations
- C. Evolution
- D. Specialization

Answer:



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166. According to Hugo de Vries, mutations play an important role in specialiation although they are random and directionless. These mutations were termed

- A. Saltation
- B. Founder Effects
- C. Bottle neck effects
- D. Variations

Answer:



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167. According to Darwin, two different areas within a continent have different species because they have different

A. Evolutionary mechanism

B. Ancestors

C. Environments

D. Evolutionary times

Answer:



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168. Principle of immunisation is based on which property of immune system ?

- A. Specialty
- B. Diversity
- C. Discrimination
- D. Memory

Answer:



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169. Lanmark's concept of 'Inheritance of acquired characters" was disapproved by

- A. Essay on population by Malthus
- B. Germplasm theory of Weismann
- C. Mutation theory by hugo de Vreis
- D. Darwin's theory of Natural selection

Answer:



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170. Which theory of origin of life is based on fact that life was created by supernatural power?

- A. Cosmozoic theory
- B. Theory of spontaneous generation
- C. Theory of Special creation
- D. Theory of catastrophism

Answer:



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171. Evolutionary biology is defined as

- A. Study of history of life forms on earth
- B. Ontogeny recapitulates Phylogeny
- C. Developmental history of embryo
- D. Evolutionary history of an organism

Answer:



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172. Select the odd one wrt. pathogenic ringworms.

A. Microsporum

B. Trichosporum

C. Epidomorphyton

D. Ascaris

Answer:



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173. Mucosa associated lymphoid tissue (MALT) constitutes nearly what percentage of total lymphoid tissue present in our body?

A. 0.1

B. 0.3

C. 0.5

D. 0.2

Answer:



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174. Enzyme which can synthesize DNA from RNA is

A. Reverse transcriptase

B. DNA polymerase

C. Protease

D. Integrase

Answer:



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175. Elephantiasis is caused by a worm, known as

- A. Ancelostoma duodenale
- B. Entamoeba histolytica
- C. Wuchereria bancrofti
- D. Treponema pallidum

Answer:



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176. All of the following are common infectious disease except

A. Common cold

B. Hepatitis B

C. Cancer

D. Ringworm

Answer:



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177. Internal bleeding, muscular pain, fever, anaemia and blockage of the intestinal passage are the common symptoms of

A. Amoebiasis

B. Malaria

C. Ascariasis

D. Typhoid

Answer:



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178. All of the following statements are true for genetic code, except

A. It is unambiguous

B. Codons in mRNA are read in a non-contiguous fashion

C. It is nearly universal

D. It is non-overlapping

Answer:



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179. Adenosine differs from a nucleotide as it lacks

A. Base

B. Sugar

C. N-glycosidic bond

D. Posphate group

Answer:



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180. Select the true statement (s) for AUG. A. It codes for an amino acid methionine. B. It is an initiation codon . C. It is a non-degenerate codon

A. Only A

B. Only A and B

C. Only B and C

D. All A, B and C

Answer:



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181. On one strand of DNA, its discontinuous synthesis is seen, because

A. It is more efficient process

B. DNA polymerase catalyses polymerisation only in one direction i.e.

5' - 3'

C. It is energy independent process

D. DNA molecule is very long to be synthesized in a continuous fashion

Answer:



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182. Identify the correct function(s) of RNA. (a) It carries amino acids to ribosomes (b) It is a constituent of ribosomes (c) It carries genetic information from DNA for synthesis of

proteins (d) It plays catalytic role during proteins synthesis.

- A. Only (a)
- B. Only (a) and (c)
- C. Only (b) and (d)
- D. All (a), (b), (c) and (d)

Answer:



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183. While analysing the DNA of an organism, different proportions of bases were obtained as given below Adenine = 28% Guanine = 22% Thymine = 28% Cytosine = 22% . From the above informations it can be generalised that

A. It is a single stranded DNA

B. It is a double stranded DNA and follows
Chargaff's rule

C. It is a double stranded DNA but does not
follows Chargaff's rule

D. It is single stranded RNA

Answer:



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184. If the sequence of nitrogenous bases of the coding strand of DNA in a transcription unit is 5' ATGGCCAT 3' then the sequence of bases in its RNA transcript would be

A. 3'— AUGGCCAU — 5'

B. 3'— UACCGGUA — 5'

C. 5' — AUGGCCAU — 3'

D. 5'— UACCGGUA — 3'

Answer:



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185. if the anticodon sequence in tRNA is 3'

AAA 5', the amino acid carried by it , is

A. Serine

B. Valine

C. Phenylalanine

D. Glutamic acid

Answer:



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186. The Lac operon gets switched on when

A. Repressor binds to the operator

B. Lactose binds to the RNA polymerase

C. Lactose binds to the repressor protein

D. Inducer binds to the operator

Answer:



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187. Mark the wrong statement.

A. In prokaryotes, transcription and translation occur in the different compartments

- B. In eukaryotes, usually structural gene of transcription unit is monocistronic
- C. In prokaryotes, the mRNA is produced in the cytoplasm
- D. In eukaryotes, the primary transcript undergoes splicing

Answer:



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188. In prokaryotic translation, the formation of peptide bond between two amino acids is catalysed by a

A. Proteinaceous enzyme

B. Lysozyme

C. RNA catalyst

D. Ribonuclease

Answer:



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189. The experimental proof for semiconservative mode of DNA replication was first shown in a bacterium, by

A. Meselson and Stahl

B. Hershey and Chase

C. Jacob and Monod

D. Alec Jeffreys

Answer:



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190. Select the correct match.

A. Transformation — Watson and Crick

B. Ribozyme — Nucleic acid (RNA)

C. HIV — DNA containing virus

D. Spliceosomes — Translation process

Answer:



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191. Heterochromatin is (a) Darkly stained region (b) Loosely packed chromatin (c) Transcriptionally inactive

- A. Only (a)
- B. Only (a) and (b)
- C. Only (b) and (c)
- D. Only (a) and (c)

Answer:



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192. Select true (T) or false (F) for the following statements and choose the correct option. A. QB bacteriophage has RNA as its material. B. Free 2'OH of RNA makes it more labile and easily degradable. C. The experiment of Hershey and Chase gave unequivocal proof that DNA is the genetic material. A B C

A. T F T

B. F F T

C. T T T

D. T F F

Answer:



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193. Mutation in a gene which codes for RNA polymerase III makes it non functional which further affects the synthesis of

A. 18S rRNA

B. hn RNA

C. 5S rRNA

D. 5.8S rRNA

Answer:



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194. The chromosomes which contain maximum and minimum number of genes in human genome are

A. An autosome and an allosome
respectively

B. An allosome and an autosome
respectively

C. Both autosomes

D. Both allosomes

Answer:



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195. polymorphism in DNA sequence is the basis of which of the following? (a) genetic mapping of human genome (b) DNA fingerprinting (c) similarities among human beings

A. Only (a)

B. (Only (b)

C. Only (a) and (b)

D. Only (b) and (c)

Answer:



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196. Satellite DNA

- A. Codes for proteins which are needed in the chloroplast
- B. Codes enzymes for Krebs' cycle
- C. Does not code for proteins
- D. Form a little portion of human genome

Answer:



197. HIV

- A. Does not follow the central dogma of molecular biology
- B. Has ds-RNA as its genetic material
- C. Contains thymine in its genetic material
- D. Has equal proportions of purines and pyrimidines 111

Answer:



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198. Read the following statements and select the correct ones. A. M.S. Swaminathan is considered as father of white revolution. B. Genetic variability is the root of any breeding programme. C. Cross hybridisation is a very time consuming and tedious process.

A. Only A and B

B. Only B and C

C. Only B

D. All A, B and C

Answer:



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199. High yielding and disease resistant wheat varieties which were introduced all over the wheat growing belt of india are

A. Jaya and Ratna

B. Jaya and Kalyan sona

C. Sonalika and Kalyan sona

D. Sonalika and Ratna

Answer:



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200. Tropical sugarcanes grown in South India

A. Had poor sugar content

B. Had thicker stems and higher sugar content

C. Were originally grown in North India

D. Had poor yield

Answer:



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201. The nutrient medium used for tissue culture does not contain (a) carbon source (b)

Inorganic salts (c) plant growth regulators (d)

Enzymes (e) vitamins and amino acid

A. Only (b). (d) and (e)

B. Only (b) and (c)

C. Only (d)

D. Only (a)

Answer:



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202. Which of the following parts of a diseased plant is used to obtain healthy plants?

A. Meristem

B. Embryo

C. Leaves

D. Pollen grains

Answer:



Watch Video Solution

203. Somatic hybridisation involves fusion of

- A. Two plant cells having cell wall
- B. Protoplasts of two different plant species
- C. A male gamete and a female gamete
- D. A female gamete with a somatic cell

Answer:



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204. Select the option which correctly fills the blanks. Association of fungi with roots of higher plants is called ___A___ in which fungal partner majorily provides ___B___ to the plants.

A. Lichen (A), Calcium (B)

B. Mycorthiza (A), Zinc (B)

C. Lichen (A), Phosphorus (B)

D. Mitochondria (A), Phosphorus (B)

Answer:



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205. Lactobacillus bacteria convert milk into curd select the correct statement(s) about this bacterium (a) It is heterotrophic (b) it increases the content of of vitamin B_{12} in curd. (c) It fixes nitrogen in leguminous plants.

A. Only (a)

B. Only (b)

C. Only (a) and (b)

D. Only (b) and (c)

Answer:



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206. Cyclosporine A, which is used as an immunosuppressive, agent, is produced by:

A. Bacterium

B. Fungus

C. Virus

D. Lichens

Answer:



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207. Biogas produced in anaerobic sludge digester is a mixture of

A. Methane and carbon dioxide only

B. Hydrogen, sulphide and methane only

C. Methane, carbon dioxide and hydrogen sulphide

D. Carbon dioxide, methane and oxygen

Answer:



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208. Bacteria which are utilized to produce gobar gas are

A. Aerobic and heterotrophic

B. Aerobic and chemoautotrophic

C. Anaerobic and chemoautotrophic

D. Anaerobic and heterotrophic

Answer:



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209. Griffith performed an experiment where mice were killed when injected with a mixture of heat killed S-strain and live R-strain of Streptococcus, but mice were alive when these

strains were injected separately. Mice were killed because

A. Proteins from heat killed S strain made R strain virulent

B. RNA from heat killed S strain made R strain virulent

C. Both DNA and RNA from heat killed strain transformed the R strain and made it pathogenic

D. DNA from heat killed S strain

transformed the R strain and made it

virulent

Answer:



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210. During transcription, the binding of RNA polymerase to the DNA is the prerequisite for the process to start.

In prokaryotes this site,

(a) Consists of 6 nucleotide bases,

(b) Is TATAAT,

(c) Is located 10 bp upstream from the start point.

(d) Is present in promoter region

A. only(a) and (b) are correct

B. only(b) and (c) are correct

C. only(c) and (d) are correct

D. All a,b,c,d are correct

Answer:



211. Select the incorrect statement.

- A. Triticale was the first man made cereal crop
- B. Crop plants grown in monoculture are highly prone to pestis
- C. A wheat variety 'Himgir' is resistant against rust pathogens "

D. Mutations can be induced by infrared radiation

Answer:



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212. For commercial production of ethanol,
Used.

A. *Saccharomyces cerevisiae*

B. *Candida lipolytica*

C. Strobotococcus

D. Aspergillus niger

Answer:



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213. Toddy is a traditional drink of some parts of South India and is made by fermenting sap from

A. Abelmoschus manihotland

B. Sesbania

C. Caryota urens

D. Calotropis

Answer:



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214. Fill in the given blanks by choosing correct option for A and B. Streptokinase is produced from a _____ which is _____.

A. Bacterium (A), Streptococcus (B)

B. Bacterium (A), Acetobacter (B)

C. Yeast (A), Clostridium (B)

D. Yeast (A), Streptococcus (B)

Answer:



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215. All of the following can be biofertilisers, except

A. Viruses

B. Azotobacter

C. Glomus

D. Cyanobacteria

Answer:



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216. Mark the incorrect statement about Nucleopolyhedroviruses.

- A. They are species specific
- B. They have narrow spectrum insecticidal applications
- C. They are nucleoprotein particle
- D. They have negative impacts on plants, mammals, fishes and on non target insects also

Answer:



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217. Which of the following microbes are used in biological treatment of sewage? (a) Autotrophic bacteria (b) Aerobic bacteria (c) Fungi (d) Heterotrophic bacteria

- A. Only (a) and (b)
- B. Only (b) and (c)
- C. Only (b), (c) and (d)
- D. Only (a), (b) and (c)

Answer:



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218. Read the following statements and choose the correct option. Statement A: Trichoderma species are free living fungi that are very common in root ecosystems. Statement B: trichoderma species are effective biocontrol agent of several plants pathogens.

- A. Only statement A is correct
- B. Only statement B is correct
- C. Both statements are correct

D. Both statements are incorrect

Answer:



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219. The greater BOD (Biochemical Oxygen Demand) of waste water indicates

A. Its less pollution level

B. Its more pollution level

C. Less amount of organic matter present
in it

D. High level of dissolved oxygen in it

Answer:



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220. Activated sludge contains

A. Aerobic bacteria only

B. Floccs

C. Anaerobic bacteria only

D. Anaerobic fungi and bacteria only

Answer:



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221. Internal bleeding, muscular pain, fever, anaemia and blockage of the intestinal passage are the common symptoms of

A. Malaria

B. Amoebiasis

C. Ascariasis

D. Typhoid

Answer:



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222. All of the following are common infectious disease except

A. Common cold

B. Hepatitis-B

C. Cancer

D. Ringworm

Answer:



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223. Elephantiasis is caused by a worm, known as

A. *Ancylostoma duodenale*

B. Entamoeba histolytica

C. Wuchereria bancrofti

D. Treponema pallidum

Answer:



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224. Enzyme which can synthesize DNA from RNA is

A. Reverse transcriptase

B. DNA polymerase

C. Protease

D. Integrase

Answer:



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225. Mucosa associated lymphoid tissue (MALT) constitutes nearly what percentage of total lymphoid tissue present in our body?

A. 0.3

B. 0.1

C. 0.5

D. 0.2

Answer:



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226. Select the odd one w.r.t. pathogenic ringworms.

A. Microsporium

B. Thichophyton

C. Ascaris

D. Epidemophyton

Answer:



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227. Evolutionary biology is defined as

A. Study of history of life forms on earth

B. Ontogeny recapitulates Phylogeny

C. Developmental history of embryo

D. Evolutionary history of an organism

Answer:



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228. Which theory of origin of life is based on fact that life was created by supernatural power?

A. Cosmozoic theory

B. Theory of spontaneous generation

C. Theory of special creation

D. Theory of catastrophism

Answer:



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229. Lanmark's concept of 'Inheritance of acquired characters" was disapproved by

- A. Essay on population by Malthus
- B. Germplasm theory of Weissmann
- C. Mutation theory by Hugo de Vries
- D. Darwin's theory of natural selection

Answer:



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230. Principle of immunisation is based on which property of immune system ?

A. Specificity

B. Diversity

C. Discrimination

D. Memory

Answer:



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231. According to Darwin, two different areas within a continent have different species because they have different

A. Evolutionary mechanisms

B. Ancestors

C. Environments

D. Evolutionary times

Answer:



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232. According to Hugo de Vries, mutations play an important role in speciation although

they are random and girectionless. These mutations were termed

A. Saltations

B. Founder effect

C. Bottle neck effect

D. Variations

Answer:



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233. Mutation theory does not explain :

A. Theory of panspemia

B. Variations

C. Evolution

D. Speciation

Answer:



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234. According to modern synthetic theory of evolution proposed by Dobzhansky, all of the following are causes of genetic variability except

(a) Gene mutations

(b) Genetic recombination

(c) Changes in chromosome number

(d) Natural selection

A. Gene mutations

B. Genetic recombination

C. Changes in chromosome number

D. Natural selection

Answer:



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235. Occurrence of similar type of biomolecules in different it group of organisms is called molecular homology. Which of the folowing example does not show molecular homology?

A. RuBisCO in different plants

B. Enzymes of Krebs' cycle in organisms

C. Blood proteins in apes and human

D. Tendril of Pisum and tendrils of
Cucurbita

Answer:



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236. Children in metro cities of India suffer from allergies and asthma because they are

more sensitive allergens and have low immunity due to

A. Vaccination in early stage

B. Sufficient supply of chemicals like serotonin

C. Use of different types of soaps and shampoo

D. Protected environment provided early in life

Answer:



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237. Substance which is not used as an antiallergen is

- A. Epinephine
- B. Glucocorticoids
- C. Histamine
- D. Adrenaline

Answer:



238. Lymphocytes which may be considered as connecting link between antibody mediated immunity and cell mediated immunity are

- A. Killer T- cells
- B. Suppressor T- cells
- C. Helper T-cells
- D. lymphocytes

Answer:



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239. Bat and insects have no common ancestry but both have functional wings for flight. This adaptation for aerial life indicates

- A. Adaptive radiation
- B. Divergent evolution
- C. Convergent evolution
- D. Microevolution

Answer:



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240. Modern horse, whose fossils are associated with Pleis

A. Mesohippus

B. Merychippus

C. Equus

D. Pliohippu

Answer:



241. All of the following are side effects of anabolic steroids in male except

- A. Increased aggression
- B. Enhanced spermatogenesis
- C. Premature baldness
- D. Breast enlargement

Answer:



242. Cigarette smoking may cause all of the following except

- A. Emphysema
- B. Gastric ulcer
- C. Carcinoma of urinary bladder
- D. Atelectasis

Answer:



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243. Select the correct statement from options given below.

A. AIDS is a congenital disease caused by enveloped virus

B. Chewing of tobacco increases blood pressure to release of catecholamines from adrenal medulla

C. Use of contaminated needles for boring ear pinna cannot spread HiV infection

D. Death from HIV infection can be completely prevented by use of anti-retroviral drugs

Answer:



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244. Select true (T) and false (F) in following given statements and choose the correct option given below.(a) Receptors for cannabinoids are present on cardiovascular

system of the body (b) Cocaine causes hallucinations in large dosage by stimulating CNS (c)Diacetylmorphinis commonly known as smack (d) Heroin is a CNS stimulant and increases body functions

A. a(T),b(F),c(T),d(F)

B. a(F),b(T),c(T),d(F)

C. a(F),b(T),c(F),d(T)

D. a(T),b(T),c(F),d(T)

Answer:



245. Select incorrect option given below in relation to cancer.

A. Cell division and differentiation in cancer

cells is not regulated by contact

inhibition

B. They starve normal cells by competing

for vital nutrients

C. Malignant tumors causing cancer are
invasive and undergo metastasis

D. Ionizing radiations like X-rays and rays
are responsible for transformation of
oncogenes into proto-oncogenes.

Answer:



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246. Read the following statements. Statement A: Jurassic period of Mesozoic era is characterised by gymnosperms as dominant plants and dinosaurs as dominant animals. Statement B: The geological history of earth closely correlates with the biological history of earth.

- A. Both statements are incorrect
- B. Both statements are correct
- C. Statement A is incorrect

D. Statement B is incorrect

Answer:



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247. Complete the analogy Anteater : Lemur ::

Numbat : ___ Choose the correct option.

A. Mole

B. Spotted cuscus

C. Flying squirrel

D. Bobcat

Answer:



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248. If the frequency of an allele 'a' in a given large unevolving population is 0.64 then, find out frequency of the other allele 'b' in the same population.

A. 0.64

B. 0.8

C. 0.48

D. 0.36

Answer:



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249. Gene pool of a large population tends to remain stable i.e. in genetic equilibrium in presence of

A. Random mating

B. Genetic drift

C. Large scale migration

D. Natural selection

Answer:



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250. Which type of natural selection is depicted in the diagram given below?

A. Disruptive selection

B. Stabilizing selection

C. Balancing selection

D. Directional selection

Answer:



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251. Population of dark biston betularia increased greatly in england from 1848-1898.

The selective agent causing the change was

A. Man

B. Lichens

C. Toxins from industrial smoke

D. Birds

Answer:



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252. Find the incorrect match.

- A. Named after fossils found in Australia-
Australopithecines
- B. Cave paintings and fossils found in
Europe-Cro-Magnon man
- C. Buried his dead with flowers and tools
and lived in Central Asia-Neanderthal
man
- D. First use fire and fossils were found in
Java-Homo erectus

Answer:



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253. Cycads and dicotyledons arose from common ancestor called 'A' that existed on earth during period 'B'. Choose the option which fill the blanks 'A'and 'B'correctly.

- A. Zosterophyllum and Triassic
- B. Chlorophyta and Silurian
- C. ASNSeed ferns and Carboniferous
- D. Herbaceous lycopods and Cretaceous

Answer:



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254. Presence of tooth buds during embryonic development of birds is an example of

A. Atavism

B. Mutation

C. Ontogeny repeats phylogeny

D. Genetic drift

Answer:



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255. Which of the following event of organic evolution was a turning point that changed the nature of atmosphere of primitive earth?

- A. Respiration
- B. Chemosynthesis
- C. Anoxygenic photosynthesis
- D. oxygenic photosynthesis

Answer:



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256. The forelimbs of human, tiger, whale and bat represent

- A. Homologous structures
- B. Analogous structures
- C. Vestigial structures
- D. Functional similarity

Answer:



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257. Introduction of larvivorous fish in stagnant water can prevent the spread of all given diseases except

- A. Dengue
- B. Diptheria
- C. Chikungunya
- D. Filariasis

Answer:



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258. Which of the following fossil is considered as missing link between reptiles and birds?

A. Hyracotherium

B. Pteranodon

C. Archaeopteryx

D. Sphenodon

Answer:



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259. Which amongst the following is the most recent ancestor of existing mammals?

- A. Thecodonts
- B. Saurapsids
- C. Synapsids
- D. Therapsids

Answer:



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260. Immunity which is not acquired after birth and is birth right of all individuals in a particular species is known as

- A. Cell mediated immunity
- B. Humoral immunity
- C. Acquired immunity
- D. Innate immunity

Answer:



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261. The two key concepts of Darwinian theory of evolution are

- A. Analogy and homology
- B. Dvergent and convergent evolution
- C. Convergence and adaptive radiation
- D. Branching descent and natural selection

Answer:



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262. Select the mismatch

- A. Skin and mucous membrane - Physical barriers
- B. HCl in stomach - Physiological barrier
- C. Macrophages - Cellular barrier
- D. Natural killer cells- Cytokine barrier

Answer:



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263. Black water fever is caused by:

- A. Nitrate pollution in water
- B. Infection of *Leishmania donovani*
- C. Infection by sporozoan *Plasmodium*
- D. Infection of *Yersinia pestis*

Answer:



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264. The most important biofertiliser in rice field is

A. Azotobacter

B. Rhizobium

C. Aulosira

D. Beijerinckia

Answer:



265. Which of the following organisms can increase nitrogen content of the soil?

- A. Frankia ana Azotobactor
- B. Boletus and Glomus
- C. Rhizobium and Glomus
- D. Bacilum anthracis and Salmonella

Answer:



266. Trichoderma species are potentially useful
as

- A. For control of aphids and stem borer
- B. For control of klamath weed
- C. To control several root borne pathogens
- D. To control prickly pear

Answer:



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267. Biogas formation is

A. Microbial process

B. Involves obligate anaerobes in its ultimate step

C. Three stepped microbial process

D. More than one option is correct

Answer:



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268. The organic acid which is used as a source of calcium for infants is

- A. Acetic acid
- B. Fumaric acid
- C. Gluconic acid
- D. Butyric acid

Answer:



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269. Select the correctly matched pair

A. *Geotrichum candidum*-Commercial

source of protease

B. Shakti and Protina-Lysine rich rice

varieties

C. Cottage cheese-*Propionibacterium*

sharmanii

D. HD1553 variety- Sonalika

Answer:



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270. Secondary treatment of sewage

- A. Leads to the separation of primary sludge
- B. Involves process like sequential filtration and sedimentation
- C. Is physico-chemical process
- D. Involves formation of activated sludge

Answer:



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271. Blood cholesterol lowering statins are obtained from

- A. *Candida lipolytica*
- B. *Trichoderma polysporum*
- C. *Monascus purpureus*
- D. *Aspergillus flavus*

Answer:



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272. In plant breeding, superior recombinant are ___ for several generations till reach a state of homozygosity so that the characters will ___ in the progeny.

- A. Cross polinated, not segregate
- B. Self polinated, not segregate
- C. Self-polinated, segregate

D. Cross-pollinated, segregate

Answer:



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273. The microbe used in the preparation of butyric acid, is

A. *Aspergillus niger*

B. *Clostridium butylicum*

C. *Acetobacter aceti*

D. *Penicilium notatum*

Answer:



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274. The root of plant breeding programme is

- A. Cross hybridisation
- B. Commercialisation of new cultivars
- C. Collection of germplasm
- D. Selection of superior recombinants

Answer:



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275. Resistance of wheat to stem saw fly is due to

- A. smooth leaves
- B. high aspartic acid
- C. solid stem
- D. hairy stem

Answer:



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276. Select mismatched pair

- A. Triticale- polyploid breeding
- B. pomato -sexual hybridization
- C. Parbhani Kranti-variety of bhindi
- D. Kalyan Sona- wheat variety

Answer:



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277. The capacity to generate a whole plant from any cell/explant is called:

- A. Micropropagation
- B. Hybridisation
- C. Regeneration
- D. Totipotency

Answer:



278. which varieties of wheat were brought to India from Mexico and modified by Gamma radiation?

- A. Lerma Rojo-64 and Sonara-64
- B. Ganga and Ranjit
- C. Jaya and Ratna
- D. Pusa Lerma and Sharbati sonora

Answer:



279. Eleven membered cyclic oligopeptide which acts as immunosuppressive agent is produced by

A. Penicillin

B. Clostridium butylicum

C. Fusarium monoliforme

D. Trichoderma polysporum

Answer:



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280. Select the mismatched pair:

A. Biodiesel - Jatropha

B. Statins - Streptococcus

C. SCP - Methylophilus

D. Energy crop - Maize

Answer:



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281. Biofortification includes improvement in all, except

- A. Oil content and quality
- B. vitamin content and quality
- C. micronutrient content
- D. protein content

Answer:



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282. Select incorrect statement

A. conventional plant breeding techniques

dates back to 9,000 - 11,000 years ago

B. green revolution was dependent to a

large extent on plant breeding

techniques

C. crops varieties like Pusa Gaurav and Pusa

A-4 bred by hybridization and selection

D. Pusa Sadabahar is a disease resistant variety of cowpea

Answer:



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283. The protoplasts of two plants are brought in contact and made to fuse by means of

A. 2,4-D

B. sodium nitrate

C. polyethylene glycol

D. Both (2) & (3)

Answer:



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284. Heterochromatin is said to be

A. light strained region

B. transcriptionally active DNA

C. loosely packed DNA

D. transcriptionally inactive DNA

Answer:



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285. Mark correct option (w.r. t. Reverse Central Dogma)

A. $\phi \times 174$

B. TMV

C. RSV

D. λ - phage

Answer:



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286. Consider the following statements:

(a) DNA is a long polymer of ribonucleotides

(b) only one strand of DNA acts as a template for the synthesis of a new strand of DNA during replication

(c) tRNA is also called adaptor molecule

(d) DNA performs both autocatalytic and heterocatalytic functions. Which of the given statements are correct?

A. (a) & (b)

B. (c) &(d)

C. (a), (c) & (d)

D. (b) , (c) & (d)

Answer:



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287. Mark odd one w.r. t. Chargaff rule

A. purine guanine is equimolar with pyrimidine cytosine

B. base ratio $\frac{A + T}{C + G}$ is unity for all species

C. $\frac{A + T}{C + G} = 1$

D. sugar deoxyribose and phosphate

Residues occur in equal number

Answer:



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288. Select wrongly matched pair

A. gene regulation in *E. coli* - splicing of

hnRNA

B. UGA - opal

C. tertiary structure of tRNA- inverted L

shaped

D. 23SrRNA-ribozyme in bacteria

Answer:



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289. In a transcription unit

- A. ρ factor is required for chain termination and release of RNA chain
- B. structural sequences usually code for monocistronic RNA in bacteria
- C. promoter is located towards 3' and (downstream) of structural gene
- D. σ factors bind to Terminator site

Answer:



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290. Read the following statement (A) AUG has dual functions (B) any reference while defining a transcription unit is made with polarity of coding strand

A. only (A) is correct

B. only (B) is correct

C. both the statements are correct

D. both the statements are incorrect

Answer:



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291. In E.coli, lac operon is induced by

A. lactose

B. constitutive gene

C. β - galactosidase

D. repressor protein

Answer:



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292. Isotopes used for proving semiconservative replication of DNA by Meselson and Stahl are

A. N^{14} and N^{15}

B. O^{18} and Radioactive thymidine

C. P^{32} and S^{35}

D. C^{14} and O^{18}

Answer:



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293. If the length of a double helical DNA is 1.7 meters then the number of base pairs present in the DNA is

A. 4.6×10^6 bp

B. 5×10^9 bp

C. 1.9×10^9 bp

D. 3.4×10^9 bp

Answer:



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294. Wobble hypothesis explain

- A. gene regulation in eukaryotes
- B. reverse transcription
- C. degeneracy of genetic code
- D. transcription

Answer:



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295. Translocation factor in bacteria during translation is

A. EF-Tu

B. EF -G

C. IF_2

D. $eEF - 2$

Answer:



296. Transcription and translation can be coupled in bacteria because

A. there is clear cut division of labour due

to presence of three types of RNA

polymerases

B. mRNA requires processing to become

active

C. chain elongation is catalyzed by core enzyme

D. transcription and translation occur in same compartment

Answer:



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297. How many amino acids can be coded by the sequence if the 14th base of given mRNA converts to G? 5' AUG UUU CUC UAG CCG 3'

A. four

B. two

C. three

D. five

Answer:



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298. The triplet nature of genetic code was suggested by

A. Hargobind Khorana

B. Watson and Crick

C. nirenberg and matthaei

D. George gamow

Answer:



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299. RNA polymerase III can catalyse the synthesis of all, except

A. SnRNA

B. tRNA

C. hnRNA

D. 5SrRNA

Answer:



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300. The DNA sequence that provides binding site for RNA polymerase in eukaryotes is

A. TATA box

B. Terminator Sequence

C. Shine Dalgarno sequence

D. Pribnow box

Answer:



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301. DNA is preferred for storage of genetic information because it

A. Can replicate

B. Has a structural and catalytic role

C. Has 5-methyl uracil which confers it
stability

D. Is dependent on RNA for translation

Answer:



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302. One codon codes for only one amino acid. This is called (a) nature of genetic code. An exception to the above feature of genetic code is (b) codon.

- A. (a)-Ambiguous, (b)-CUC
- B. (a)-Unambiguous, (b)-GUG
- C. (a)-Degeneracy, (b)-AUG
- D. (a)-Universal, (b)-UUU

Answer:



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303. The process which represents dominance of RNA world is

- A. Transcription
- B. DNA replication
- C. Transduction
- D. Splicing

Answer:



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304. Select the mismatched pair

A. Ligases - Joining of Okazaki fragments

B. Hershey and Chase experiment -

Unequivocal proof that DNA is genetic material

C. QB Bacteriophage - DNA as genetic

material

D. DNase - Inhibit transformation

Answer:



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305. Complete the following statement. Widal test in __A__ of man suggest the infection of __B__.

- A. A-Faeces, B-Entamoeba histolytica
- B. A- Faeces, B-Mycobacterium tuberculosis
- C. A-Sputum, B-Rhino virus
- D. A-Blood, B-Salmonella typhi

Answer:



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306. Ronald Ross is associated with discovery of

A. Causative agent of cholera

B. Oocyst of Plasmodium in stomach wall of female Anopheles

C. Gametocytes of Plasmodium in RBC of man

D. Causative agent of tuberculosis

Answer:



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307. Oparin's coacervates fail to fulfill the requirement as a candidate of probable precursors of life because

- A. They do not exhibit simple form of metabolism
- B. They do not have lipid cuter membrane
- C. They cannot reproduce
- D. Both (2) & (3)

Answer:



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308. Sting of honey bee and scorpion exemplify

A. Divergent evolution

B. Vestigial organ

C. Homologous organ

D. Analogous organ

Answer:



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309. All of the following are examples of atavism in humans except

- A. Nipples in male
- B. Exceptionally long dense hair
- C. Tail in new born human baby
- D. Greatly developed canine teeth

Answer:



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310. Dinosaurs and toothed birds became extinct in

A. Beginning of cretaceous period of mesozoic era

B. End of permian period of palaeozoic era

C. End of triassic period of mesozoic era

D. Beginning of jurassic period of mesozoic era

Answer:





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311. Name the first one-toed horse.

A. Merychippus

B. Pliohippus

C. Eohippus

D. Mesohippus

Answer:



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312. Which of the following is an incorrect match w.r.t. theory and its proposer/supporter?

A. Germ theory of - Edward Jenner disease and immunology

B. Mutation Theory - Hugo de Vries

C. Theory of continuity of - A. Weismann Germplasm

D. Artificial Selection - Charles Darwin Theory

Answer:



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313. Which one the following factors does not affect the Hardy-Weinberg law of genetic equilibrium ?

- A. Gene migration
- B. Natural selection
- C. Gene recombination
- D. Tandom mating

Answer:



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314. Industrial melanism is one of the most striking example which demonstrates natural selection. After industrial revolution the black coloured form of the peppered moth increased as compared to dull grey or white moth. The black coloured form developed as a result of

A. Deposition of smoke over white moth

B. Genetic drift

C. Dominant mutation

D. Recessive mutation

Answer:



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315. The allelic frequency of recessive allele is 0.3. Find out the number of heterozygous and individuals in a population of 200

A. 21

B. 18

C. 42

D. 84

Answer:



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316. All of the following plants have been evolved from psilophyton except

A. Bryophytes

B. Sphenopsids

C. Ferns

D. Conifers

Answer:



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317. Which of the following took place 10, 000 years ago?

A. Beginning of human settlement

B. Development of agriculture

C. Use of fire for hunting, cooking and
defense

D. More than one option is correct

Answer:



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318. Find out the incorrect statement.

- A. The first human-like being the hominid was *Homo habilis* with cranial capacity 650-800cc
- B. *Homo erectus* existed about 1.5mya and probably ate meat
- C. In evolution of modern man there is parallel evolution of human brain and language
- D. The fossil of *Ramapithecus* has been discovered in Ethiopia and Tanzania

Answer:



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319. Which of the following statement is correct w.r.t. Neanderthal man?

- A. They had a cranial capacity of 1400 cc
and used hides to protect their body
and buried their dead

- B. They had orthognathous face

C. Nanderthal man lived near east and central Africa between 1,00,000-40,000 years back

D. During ice age about 75, 000 – 10, 000 years ago they gave rise to modern man

Answer:



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320. Find out the incorrect match.

- A. Sibling species - Morphologically identical, but reproductively isolated
- B. Convergent evolution - Darwin's finches
- C. Directional selection - Evolution of giraffe
- D. Balancing selection - Sickle cell anaemia

Answer:



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321. Mule and Hinnh are examples of

- A. Hybrid breakdown
- B. Gametic isolation
- C. Hybrid inviability
- D. Hybrid sterility

Answer:



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322. The book "An Essay on Principles of Population " was written by

A. Alfred Wallace

B. Thomas Robert Malthus

C. Sewall wright

D. G L Stebbins

Answer:



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323. Which of the following is correct w.r.t. Lamarckism?

A. A change in environment brings about changes in organism

B. An organ can develop further or degenerate only due to continuous variations

C. Only those variations are passed on to the offspring which affect germ cells

D. Appetency does not play any role in evolution

Answer:



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324. The ratio of ammonia, methane and hydrogen gas in the spark chamber of Miller's experimental set-up was

A. 2: 2: 1

B. 3 : 3 : 4

C. 2 : 1 : 2

D. 1 : 2 : 2

Answer:



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325. Read the statement given below and find the incorrect statement

A. On the primeval earth, organic compounds got degraded due to free oxygen

B. Arrhenius suggested that primitive form of life called panspermia consisted of spores or seeds which existed throughout universe and produced different forms of life on this earth

C. Life appeared 500 million years after the formation of earth i.e almost four billion

years ago

D. Louis Pasteur by careful experimentation demonstration that life comes only from pre-existing life, by using pre-sterilized flasks and killed yeast

Answer:



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326. Which of the following is an example of artificial selection?

A. Development of retractile claws in carnivorous mammals

B. Development of cabbage, cauliflower and broccoli

C. Development of short legged ancon sheep

D. Cactus ground finches and insectivorous tree finches on Galapagos islands developed from seed eating finche.

Answer:



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327. *Drosophila pseudobscura* and *Drosophila Persimilis* represent.

A. Sibling species

B. Anagenesis

C. Paraspecies

D. Geographical isolation

Answer:



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328. Stratum comeum prevents the entry of bacteria and viruses in human body. It is a part of non specific innate immunity to which also belongs.

A. Plasma cells and Antibodies

B. Mucous Membrane

C. Tears and Saliva

D. Neutrophils and Monocytes

Answer:



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329. Which of the drugs are used for quick relief from symptoms of allergy?

A. Anti Histamine

B. Adrenaline

C. Prednisolone

D. More than one option is correct

Answer:



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330. The light and heavy chains is an antibody molecule are linked to each other mainly by

A. Disulphide bonds

B. Peptide bonds

C. Ionic bonds

D. Hydrogen bonds

Answer:



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331. Secondary immune response differs from primary immune response in that it

A. Declines rapidly

B. Is feeble

C. Is due to memory cells

D. Takes long time to establish.

Answer:



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332. The gene for MHC in humans is present
on

A. chromosome 10

B. chromosome 21

C. Chromosome 3

D. Chromosome 6

Answer:



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333. Which of the following class of proteins is represented by antigen presenting cells to express antigenic peptide to T helper cells?

A. MHC1

B. HLA1

C. MHC11

D. Both (1) and (2)

Answer:



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334. Which of the following is an incorrect match w.r.t lifecycle of plasmodium vivax

A. Fertilisation-Intenstine of phi Anopheles

B. Schizogony- Stomach wall of phi
Anopheles

C. Infective stage for man- Sporozoite wall
of phi Anopheles

D. Onset-Liberation erythrocytic merozoites
from RBC

Answer:



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335. Mark the in correct match w.r.t diseases and diagnostic test

A. Diphtheria- Mantoux test

B. Leprosy- Lepromin test

C. Hepatitis B-Australian antigen

D. Dengue- Touriquet

Answer:



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336. Which of the following diseases is correctly matched with its symptoms/ description

A. Pertussis- Repeated bouts of violent cough which end in a whoop vomiting

B. Rabies- Attack of paralysis beings with high fever headache, chilliness and pain all over the body inflammation of nervous system

C. Amoebiasis- Abscesses in small
intestines

D. Leprosy--Blood,containing, sputum, bubo
in groin and armpit

Answer:



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337. Which of the following immunoglobulins
is found as dimer and has a secretory J - chain

A. IgM

B. IgE

C. IgA

D. IgG

Answer:



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338. Anaphylactic shock is characterised by

A. Use of adrenaline to neutralize histamine produced, thereby, reducing lowering of BP

B. Reddening of skin followed by appearance of minute blisters as a result of allergic reaction towards particular fabric

C. Marked dilation of all arteries and drastic fall in blood pressure

D. Swollen, reddened running eyes and nose as a result of allergy towards pollen

Answer:



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339. Consider the following four Statements and select whether they are true (T) or false(F).

(A) The person suffering from SCID lacks both B-cells and T-cells

(B) Multiple sclerosis is an autoimmune disease

(C) Gamma globulins are synthesised in lymph nodes

(D) Tetanus toxoid provides artificial passive immunity

A. 

B. 

C. 

D. 

Answer:



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340. Oral polio vaccine(OPV) was discovered by

- A. Jonas Salk
- B. Albert Bruce Sabin
- C. Edward Jenner
- D. Louis Pasteur

Answer:



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341. Which of the following statement is incorrect w.r.t. MALT?

A. It is the site of proliferation and differentiation of B-lymphocytes and T-lymphocytes

B. It is located within the lining of digestive, respiratory and urinogenital tracts

C. It is the primary lymphoid organ

D. It is constitutes about 50% of the lymphoid tissue in human body

Answer:



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342. A thymectomized individual will

A. Show reduced ability to reject on allograft

B. Show reduced B cell maturation

C. Strongly reject an allograft

D. Show proper development/maturation
of T cells

Answer:



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343. Which of the following statement is incorrect w.r.t. natural killer cells?

A. NK cells release chemicals called perforins which cause cytolysis of microbe

B. NK cells release tumour necrosis factors which kills target cells

C. NK cells lack antigen receptors unlike B cells and T cells

D. NK cells are formed in bone marrow and mature in thymus

Answer:



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344. Which of the following is not a phagocytic cellular barrier? (a) Histiocytes (b) Kupffer cells (c) Clasmatocytes (d) Mast cells

A. c & d

B. d only

C. a & b

D. b & d

Answer:



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345. The infective stage for secondary host(female Anopheles) in the life cycle of Plasmodium is

- A. Trophozoite
- B. Cryptozoite
- C. Sporozoite
- D. Gametocytes

Answer:



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346. Gaseous movement within the plant body is due to

A. Diffusion and sometimes by active transport

B. Active transport and sometimes by diffusion facilitated diffusion

C. Active transport only

D. Diffusion only

Answer:



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347. Water potential for pure water at atmospheric pressure

A. Maximum

B. Minimum

C. Zero

D. More than one option is correct

Answer:



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348. When a cell is fully turgid, its

A. $OP = DPD$

B. $OP = \text{Zero}$

C. $DPD = \text{Zero}$

D. $TP = \text{Zero}$

Answer:



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349. Choose the correct role of iron in plant

- A. Splitting of water to liberate oxygen during photosynthesis
- B. Helps in synthesis of coenzyme-A
- C. Helps in the formation of chlorophyll
- D. Helps in the formation of mitotic spindle

Answer:



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350. During transport, when sugar moved out of the sieve tube then the osmotic pressure at unloading end

A. Decrease

B. Increase

C. Partially increases then decreases

D. No change

Answer:



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351. Which of following will show toxicity if their concentration becomes slightly above the critical concentration?

- A. Iron, Manganese
- B. Calcium, Copper
- C. Sulphur, Magnesium
- D. Potassium, Phosphorous

Answer:



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352. Element found in plant growing near nuclear test site is

- A. Radioactive selenium
- B. Radioactive strontium
- C. Radioactive sodium
- D. Radioactive silicon

Answer:



353. On the basis of diverse function, essential elements are grouped into how many categories?

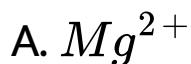
- A. Two
- B. Seventeen
- C. Four
- D. Fourteen

Answer:



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354. Alcohol dehydration requires _____ as an activator



Answer:



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355. Select the incorrect match

A. Potassium - Protein synthesis

B. Calcium - Functioning of cell membrane

C. Zinc - Synthesis of gibberellin

D. Chlorine - Leads to evolution of oxygen
during photosynthesis

Answer:



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356. Delay in flowering plants is due to the
__ (A) __ concentration of __ (B) __

A. A B High N, K, S

B. A B Low N, S, Mo

C. A B High Ca, Cu, K

D. A B Low Ca, Cu, Mo

Answer:



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357. Manganese toxicity

A. Stimulates calcium translocation in shoot apex

B. Causes chlorosis and necrosis

C. Increases binding of Mg with enzyme

D. Delay in flowering and increases iron uptake

Answer:



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358. Nitrite is further oxidised to nitrate by the activity of

- A. Nitrobacter
- B. Nitrococcus
- C. Pseudomonas
- D. Anabaena

Answer:



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359. Root nodules are formed by the division of
of

- A. Epidermal cells
- B. Endodermal cells
- C. Cortical cells only
- D. Cortical and pericyclic cells

Answer:



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360. Who showed that only the green part of the plants release oxygen?

A. T.W Engelmann

B. Julius von Sachs

C. Priestley

D. Jan Ingenhousz

Answer:



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361. PS-II does not have

A. Chlorophyll a in reaction centre

B. Chlorophyll a with absorption peak at
700 nm

C. Antenna molecule

D. Pigment molecules bound to proteins

Answer:



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362. In chloroplast, NADP reductase enzyme is locked

A. In stroma in the soluble form

B. On the stroma side of the thylakoid membrane

C. Inside the lumen

D. Inner surface of thylakoid membrane

Answer:



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363. Carbon reduction pathway in C_4 - plants is carried out by the activity of

- A. PEPCase in mesophyll cytoplasm
- B. *RuBisCO* in mesophyll chloroplast
- C. *RuBisCO* in bundle sheath chloroplast
- D. Pepco in mesophyll chloroplast

Answer:



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364. Find the correct statement

A. Dark reaction is affected by temperature
but not directly dependent on light

B. CO_2 is required in all major steps of
Calvin cycle

C. Sugarcane is more efficient in CO_2
fixation than maize

D. Agranal chloroplast is found in
mesophyll cell of C_4 plants

Answer:



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365. Competitive binding of O_2 and CO_2 , is shown by which of the following enzymes in chloroplast?

- A. PEP carboxylase
- B. *RuBisCO* in mesophyll chloroplast
- C. ATP synthetase
- D. More than one option is correct

Answer:



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366. Choose the correct one w.r.t.
photorespiration

A. Rate of photorespiration is high in

bright light and high CO_2

B. Oxidation chloroplast and CO_2 fixation

occurs at the same time

C. Does not utilise ATP

D. Decarboxylation occurs in mitochondria

Answer:



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367. At CO_2 compensation point

A. The rate of photosynthesis is equal to
the rate of respiration

B. Photosynthesis stops and respiration

becomes slow

C. Rate of photosynthesis and respiration

is high

D. Rate of photosynthesis is decreased but

respiration is not affected

Answer:



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368. T.W Engelmann experimented on

A. Chemosynthetic bacteria

B. Cladophora

C. Hydrilla

D. Photosynthetic bacteria

Answer:



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369. Site of decarboxylation during complete oxidation of food in eukaryotic cells is

- A. Cytoplasm
- B. Mitochondrial matrix
- C. Perimitochondrial space
- D. Mitochondrial membrane

Answer:



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370. Two redox equivalents are removed during EMP pathway in

A. Formation of PGAL

B. Conservation of PEP

C. Formation of BPGA

D. Breakdown of fructose-1 – 6
biphosphate

Answer:



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371. The main splitting enzyme in glycolysis

A. PFK

B. Aldolase

C. Hexokinase

D. Transphosphorylase

Answer:



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372. Aerobic respiration completes in

A. Mitochondrial matrix only

B. Mitochondrial matrix and inner
mitochondrial membrane

C. Two process is, one in cytoplasm and
another in mitochondrial matrix

D. One process of complete oxidation in
mitochondrial membrane

Answer:



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373. Second decarboxylation in TCA cycle occurs at

A. Citric acid

B. Malic acid

C. alpha-Ketoglutaric acid

D. Isocitric acid

Answer:



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374. Last electron donor in ETC is

A. $\left(\frac{1}{2}\right)O_2$ in mitochondria matrix

B. $\left(\frac{1}{2}\right)O_2$ associated with inner
mitochondrial membrane

C. Two Cu-centre in complex-IV

D. Two Cu-centre in mobile protein Cyt-c

Answer:



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375. How many ATPs are gained from one PEP molecule in its complete oxidation?

A. 15

B. 16

C. 31

D. 32

Answer:



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376. Which of the respiratory substrates consumes more O_2 for oxidation by releasing less CO_2

A. OAA

B. Malic acid

C. Palmitic acid

D. Sucrose

Answer:



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377. Select incorrect statement w.r.t dark reaction in maize plant.

- A. More efficient CO_2 fixation mechanism
- B. Dimorphic chloroplast
- C. Expense of 18 ATP in Calvin cycle for production of one glucose
- D. Photolysis of water is concerned with bundle sheath chloroplast

Answer:





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378. Cytokinin is known for

- A. Respiratory climactic effect
- B. Antiageing
- C. Stoppage of cambial activity
- D. Substitution of cold treatment

Answer:



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379. Choose odd one out w.r.t developmental plasticity

A. Cotton

B. Coriander

C. Buttercup

D. Larkspur

Answer:



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380. Which of the following is responsible for thinning of cotton and cherry?

A. Ethylene

B. GA

C. ABA

D. Auxin

Answer:



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381. Which one of the following hormone plays an important role in seed development, maturation and dormancy?

A. GA

B. C_2H_4

C. ABA

D. Cytokinin

Answer:



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382. PGR with terpene composition is

- A. Synthesised from acetylcoenzyme A
- B. Methionine derivative
- C. Widely used in agriculture
- D. Strong weedicide

Answer:



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383. Nutrient mobilisation in plants and ____ in leaf senescence are the role of ____

- A. Delay, Auxin
- B. Promotes, GA
- C. Delay, Cytokinin
- D. Promotes, auxin

Answer:



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384. Xylem differentiation is stimulated by

A. Auxin

B. Ethylene

C. ABA

D. Cytokinin

Answer:



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385. Select incorrectly matched pair

A. LDP __ Flowering below critical

photoperiod

B. SDP ___ Soyabean

C. DNP __ Flowering throughout the year

D. Low temperature stimulus ___ Perceived

by mature shoot apex

Answer:



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386. Among bony fishes, shark, land snails, aquatic amphibians, crocodiles in water, birds, aquatic insects, earthworm during rainy season, liver flukes and rabbit, how many of them are ammonotelic?

A. Seven

B. Five

C. Six

D. Eight

Answer:



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387. Proximal convoluted tubule differs from distal convoluted tubule of nephron in

- A. Bearing epithelial cells containing numerous microvilli
- B. Facultative water reabsorption
- C. Reabsorbing almost all glucose passively
- D. More than one option is correct

Answer:



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388. All of the following factors during regulation of renal function decrease GFR, except

- A. Increased activity of sympathetic nerves
- B. Myogenic mechanism
- C. Angiotensin II
- D. Atrial natriuretic factor

Answer:



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389. Blood test of a person shows glucose level to be $130\text{mg per } 100\text{ ml}$ of blood. The urine of this person will

- A. Show the presence of glucose
- B. Not show the presence of glucose
- C. Not show Ketone bodies at all
- D. Be hypotonic or isotonic

Answer:



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390. Which of the following is an incorrect match w.r.t. animal and its excretory structure?

- A. Taenia - Flame cells
- B. Palaeomon - Green glands
- C. Nerel - Organ of Bojanus
- D. Periplaneta - Malpighian tubules

Answer:



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391. Which of the following statement is incorrect?

A. Majority of the nephrons in human kidney are cortical nephrons

B. Vasa recta is highly reduced or absent in juxtamedullary nephron

C. In juxtamedullary nephron, the loop of Henle is very long and runs deep into the medulla

D. The efferent arteriole emerging from glomerulus forms peritubular capillaries

Answer:



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392. Joint between atlas and axis is

- A. Saddle joint
- B. Pivot joint
- C. Ball and socket joint
- D. Hinge joint

Answer:



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393. Tetanus differs from tetany in having

- A. Low calcium in body fluid

B. Low calcium in sarcoplasm

C. Rapid spasms in muscles due to low

Ca^{+2} in body fluid

D. Sustained contraction in muscles due to

high Ca^{+2} in sarcoplasm

Answer:



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394. Which of the following is correct match w.r.t. bone and its total number in human body?

A. Ribs-12

B. Patella-1

C. Floating ribs -4

D. Cervical vertebrae

Answer:



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395. All the following are unpaired cranial bones of skull in human , except

A. Occipital

B. Mandible

C. Frontal

D. Sphenoid

Answer:



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396. Which of the following human bone is incorrectly matched with its description?

A. Scapula - Large triangular flat bone situated in the ventral part of the thorax between the second and seventh ribs

B. Sternum- Dagger shaped flat bone on the ventral midline of thorax

C. Hyoid- U-shaped bone present at the base of buccal cavity , does not articulate with any other bone of body

D. Femur - Thigh bone, longest bone of body which articulates with tibia forming hinge joint

Answer:



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397. Which of the following statement is incorrect w.r.t. ribs?

A. A rib has two articulation surfaces on its dorsal end and is hence called bicephalic

B. True ribs are first seven pairs attached dorsally to thoracic vertebrae and ventrally to sternum with the help of hyaline cartilage

C. The 8th,9th and 10th pair of ribs are false ribs, do not articulate directly with the sternum but join the seventh rib with the help of calcified cartilage

D. Floating ribs are 11th abd 12th pair not connected ventrally with sternum

Answer:



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398. Unipolar type of neuron is usually found in the

A. Cerebral cortex

B. Retina

C. Embryonic stage

D. Dorsal root ganglia

Answer:



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399. Which of the following is a correct difference between electrical and chemical synapse?

A. Synaptic cleft - Electrical synapse(larger)

- Chemical synapse(smaller)

B. Impulse transmission - Electrical

synapse(slower) - chemical

synapse(faster)

C. Direction of impulse- Electrical

synapse(unidirectional) - Chemical

synapse(Bidirectional)

D. Abundance in body- Electrical

synapse(less or rare) - chemical

synapse(more)

Answer:



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400. Aqueduct of Sylvius connects

A. Paracoel with diocoel

B. Diocoel with metacoel

C. Metacoel with central canal of spinal
cord

D. Paracoel with rhinocoel

Answer:



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401. Visual reflex involves control and coordination movements of head and eyes to fix and focus on an object. Such reflexes is controlled by

A. Fore brain

B. Mid brain

C. Hind brain

D. All of these

Answer:



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402. Which of the following is a conditioned reflex action?

A. Salivation on taste of food

B. Pupillary constriction in new born baby

C. Knee jerk reflex

D. Playing a guitar

Answer:



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403. Vestibular apparatus of the internal ear includes - (a) crista ampullaris and macula , (b) Semicircular canals , (c) otolith organ , (d) Sacculle and utricle

A. b & c

B. a & d

C. b, c, & d

D. a, b, c & d

Answer:



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404. Which of the following is an incorrect function of the hormone in human body?

A. Melatonins- Maintain normal rhythms of sleep wake cycle , body temperature , influences menstrual cycle

B. Thyroxin- Regulates basal metabolic rate,erythropoiesis and maintenance of water and electrolyte balance

C. Thymosin- Differentiation of B lymphocytes which provide cell mediated immunity

D. Cortisol- Inhibits cellular uptake and utilisation of amino acids, maintain cardio-vascular system as well as the kidney functions

Answer:



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405. All of the following disorders are due to under secretion of the hormones in human body except

- A. Gull's disease
- B. Addison's disease
- C. Diabetes insipidus
- D. Grave's disease

Answer:



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406. Which of the following is not correct of peptide hormones?

A. Insulin, glucagon, melatonin

B. Thymosin, aldosterone, somatotrophic
hormone

C. Thyroxin, somatostatin, FSH

D. parathormone, glucagon, thymosin

Answer:



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407. Which of the following is correct set of function of catecholamines?

A. Bradycardia,Piloerection,Glycogenolysis

B. Lipolysis,Tachycardia,Pupiliary

constriction

C. Piloerection,Pupiliary dilation

D. Sweating,Tachypnea,Lipogenesis

Answer:



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408. Allergic symptoms in the human body can be overcome by administration of

- A. Insulin
- B. Testosterone
- C. Histamine
- D. Cortisol

Answer:



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409. Which of the following hormone acts on pancreas and gall bladder and stimulates secretion of pancreatic enzymes and release of bile juice , respectively?

- A. Gastrin
- B. Cholecystokinin
- C. Secretin
- D. Gastric inhibitory peptide

Answer:



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410. Which of the following cranial nerve helps in accommodation along with movement of the eyeball in orbit?

A. IV(Trochlear)

B. III (Oculomotor)

C. VI (Abducens)

D. All of these

Answer:



411. Which of the following statement is correct w.r.t. fovea centralis?

A. Fovea is the point of maximum resolution and is highly vascular

B. It is thinned out portion of retina where rods and cons are densely packed

C. The ratio of cone, bipolar cell and ganglion cell is 1 : 1 : 1 at fovea

D. Fovea is the point on retina where resolution is the least

Answer:



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412. Which of the following neural disorder is caused by destruction of dopamine secreting neurons of basal nuclei?

A. Parkinson's disease

B. Huntington's chorea

C. Alzheimer's disease

D. Broca's aphasia

Answer:



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413. Which of the following is an incorrect match w.r.t. endocrine gland and its location?

A. Pituitary gland - Sella tursica of sphenoid bone

B. Pineal gland - Attached to epithalamus

C. Parathyroid - Back side of thyroid gland

D. Adrenal gland - Posterior part of each kidney

Answer:



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414. Which of the following hormone is correctly matched with its source and target organ?

A. Insulin - α -cells of pancreas - Liver

B. Testosterone - Sertoli cells of seminiferous tubules - Bones

C. Prolactin - Anterior lobe of pituitary gland - Mammary gland

D. Gastrin - Pyloric stomach - Oesophagus

Answer:



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415. Which of the following are related to the posterior pituitary?

- (a) Hassll's corpuscles
- (b) Neurohypophysis
- (c) Herring bodies
- (d) Phaeochromocytes

A. (a) & (b)

B. (b) & (c)

C. (c) & (d)

D. (a) & (b)

Answer:



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416. A child is physically stunted and mentally retarded. He is suffering from hypothermia, low heart rate and low blood pressure, pot belly, pigeon chest and protruding tongue is

also observed. This could be a result of hyposecretion of

- A. Growth Hormone (Dwarfism)
- B. Thyroxine (Cretinism)
- C. Aldosterone (Conn's syndrome)
- D. Cortisol (Cushing's syndrome)

Answer:



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417. Calcium binding protein in the sarcoplasmic reticulum of skeletal muscle fibre is

- A. Dystrophin
- B. Titin
- C. Calsequestrin
- D. Calmodulin

Answer:



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418. During muscle contraction

(a) A band remains of length same

(b) O band increases

(c) H zone and M line disappear

(d) I band increases

€ Membrane of Krause comes closer

(f) Sarcomere lengthens

A. (a), (b), (c) & (e)

B. (a), (b), (c), (d), (e) & (f)

C. (d) & (f)

D. (a), (c) & (e)

Answer:



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419. White muscle fibres differ from red muscle fibres in being/having (a) Poor in mitochondria (b) Abundant in myoglobin (c) Faster in rate of contraction (d) Less diameter (e) Well developed sarcoplasmic reticulum

A. (a), (c) & (e)

B. (b) & (d)

C. (a), (b), (c), (d) & (e)

D. (c) & (e)

Answer:



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420. In cardiac muscle

A. Troponin is absent

B. Gap junctions are absent

C. Autorhythmicity is absent

D. Capacity for regeneration is absent

Answer:



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421. The osmolarity of filtrate in PCT is

A. Half of the osmolarity of filtrate in hair
pin loop

B. One-fourth of the osmolarity of filtrate
in hair pin loop

C. One-sixth of the osmolarity of filtrate in
collecting duct of inner medullary region

D. Half of the osmolarity of filtrate in
collecting duct of inner medullary region

Answer:



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422. Renal calculi is a result of

A. Hypertension

B. Calcium oxalate and calcium phosphate
crystals

C. Excess of nucleic acid metabolism

D. Both (2) & (3)

Answer:



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423. In short day plants flowering

A. Needs photo period longer than the critical day length

B. Can be induced in non-inductive periods by the use of GAs

C. occurs only if the skotoperiod is less than a critical period

D. Is inhibited by interruption of darkness do red light wavelength

Answer:



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424. The most widely used hormone in agriculture

- A. Promotes root growth
- B. helps breaking seed dormancy
- C. promote senescence and abscission of leaves and flowers

D. More than one option is correct

Answer:



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425. Hastening the maturity period in conifers does leading to increased production can be observed by spring

A. Abscisic acid

B. Ethylene

C. Auxins

D. Gibberellins

Answer:



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426. Plant hormone promoting abscission in senescent parts but preventing this in premature organs of plant is

A. Not associated with apical dominance

B. not associated with xylem differentiation
and cell division

C. Derivative of indole compounds

D. Synthesised naturally in shoot apex only

Answer:



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427. Formation of meristems like cambium
and cork cambium from parenchyma cells is

A. dedifferentiation

B. Differentiation

C. Redifferentiation

D. more than one option is correct

Answer:



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428. Elongation phase of plant growth is characterized by all except

A. Deposition off new cell wall

B. Divisions and protoplasmic modification

C. Increased vacuolation

D. Cell enlargement

Answer:



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429. Which intermediate of TAC cycle is withdrawn for synthesis of chlorophyll

A. alpha-KGA

B. Succinic acid

C. Succinyl CoA

D. Acetyl CoA

Answer:



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430. Choose incorrect statement w.r.t. ETS in mitochondria

- A. Cyt.c is a small protein attached to outer surface of the inner membrane
- B. The ETS consist of two mobile electron carries
- C. Ubiquinone receives redox equivalence from $NADH+H^+$ and $FADH_2$ both
- D. Reduced ubiquinone is oxidised with the transfer of electrons to cyt.c via complex

Answer:



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431. RQ of germinating fatty seeds is

A. more than one

B. infinite

C. Less than one

D. Unity

Answer:



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432. Synthesis of ATP inhibited when proton movement from outer surface to matrix of mitochondria complex v does not occur due to

A. Oligomycin

B. Rotenone

C. Cyanide

D. Antimycin A

Answer:



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433. Substrate entrant in TCA cycle is

A. A tricarboxylic acid having six carbon

B. Acetyl CoA produced from pyruvic acid in presence of enzyme pyruvate kinase

C. 3-C compound formed in cytoplasm

D. Formed in Matrix of mitochondria through oxidative decarboxylation of pyruvic acid

Answer:



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434. Select incorrect for the process of fermentation by Yeasts

A. Redox equivalents formed in glycolysis is used in conversion of pyruvic acid to acetaldehyde

B. only two molecules of ATP is net gain per

C. only less than 7% of the energy is glucose is released

D. The process is hazardous to yeasts due to its product

Answer:



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435. Net yield of APT when two molecules of fructose -1,6- bcast for Speed is oxidized 2 pyruvic acid through glycolytic way in absence of O_2 is

A. 16

B. 20

C. 8

D. 6

Answer:



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436. respiratory pathway invariably present in
all living organisms

- A. involve special breakdown of glucose into two molecules of pyruvate without yielding the redox equivalents
- B. utilises sucrose directly as respiratory substrate
- C. occurs in cell cytoplasm even in presence of O_2
- D. cannot form ATP by substrate level phosphorylation

Answer:



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437. What is not related to cellular respiration?

A. Energy is released in a series of slow stepwise reaction in presence of enzymes

B. The energy released by breakdown of C-C bonds is not used directly for cell metabolism

C. breaking of C-C bonds of complex compounds through reduction in absence of O_2

D. all the energy content in respiratory substance is not released free into cell

Answer:



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438. Currently availability of CO_2 levels in atmosphere is limiting to all except

- A. Wheat and tomato
- B. Maize and sugarcane
- C. Wheat and rice
- D. Tomato and bell pepper

Answer:



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439. The primary acceptor of CO_2 in sugarcane plant is

A. 3-C compound regenerated in mesophyll cells with the help of enzyme pyruvate dikinase

B. 3-PEP present in bundle sheath cell cytoplasm

C. located in chloroplasts of bundle sheath cells

D. PEPcase present in vacuole of mesophyll
cell

Answer:



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440. carotenes and xanthophylls in plants are yellow to orange pigments and act as shield pigments because

- A. they are specialised proteins which absorb light strongly in blue violet range
- B. they prevent chlorophyll from photooxidation
- C. they absorb light and transfer it to chlorophyll through inductive resonance
- D. more than one option is correct

Answer:



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441. the first step in photosynthesis is the

A. photoexcitation of chlorophyll and
emission of electron

B. reduction of $NADP^+$

C. photophosphorylation

D. photolysis of water

Answer:



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442. which of the following does not participate when light dependent phase yeilds only ATP as assimilitary power?

A. NADP reductase

B. P_{700}

C. Plastoquinone

D. Cyt b-f complex

Answer:



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443. primary electron acceptor in noncyclic photophosphorylation in light phase is

- A. pheophytin
- B. plastocyanin
- C. ferredoxin
- D. cytochrome b

Answer:



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444. biennial plants like _____ need to be exposed to low temperatures so as to Houston flowering later in life. This treatment is known as _____

- A. cabbage, stratification
- B. winter wheat varieties, springification
- C. sugarbeet, Vernalisation
- D. Both(2)&(3)

Answer:



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445. Cladophora was placed in a suspension of aerobic bacteria and irradiated to monochromatic light wavelength. The bacteria were found to be accumulated mainly in the region of

- A. violet and red wavelength
- B. green and red wavelengths
- C. blue and red wavelength
- D. only in red wavelength

Answer:



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446. choose incorrect statement for symbiotic N_2 fixation by Rhizobium in leguminous plant

A. differentiation of specialised N_2 fixing cells in root cortex occurs when bacteria are released from infectious thread

B. the energy required for symbiotic N_2

fixation is obtained from bacteria only

C. nitrogenous catalyzes the conversion of

atmospheric N_2 ammonia

D. leghaemoglobin acts as O_2 scavenger

Answer:



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447. NH_4^+ ions present in the plant are

A. stored in cytoplasm and vacuoles

B. used to convert it to acid into amides by
transamination

C. converted to glutamic acid in presence
of alpha-ketoglutarate dehydrogenase

D. Subjected to reductive amination using
NADPH

Answer:



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448. nitrogen fixing nodules on the roots of non leguminous plant *Alnus* harbours the microbe

A. *Frankia*

B. *Nitrobacter*

C. *Nitrosomonas*

D. *Rhizobium*

Answer:



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449. All minerals cannot be passively absorbed by the root because

A. minerals are present in soil as charged particles

B. concentration of minerals in soil are generally less than the concentration of minerals in the root

C. transport proteins of root endodermis are control point where the quantity and

type of minerals are adjusted

D. more than one option is correct

Answer:



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450. Mn in higher concentration produces micronutrient toxicity and it can cause

A. the appearance of green spots

surrounded by necrotic veins

B. the deficiency of magnesium iron and calcium

C. decrease in fresh weight of tissues by about 10percent

D. inhibition of calcium translocation to root apices only

Answer:



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451. Group of elements when deficient in plant matter causing chlorosis inhibition of cell division and delay in flowering is

A. Mg,K,Si

B. Cu,Mo,Cl

C. S,Mo,B

D. N,S,Mo

Answer:



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452. Match the following Column-I a.Zn b.Mo
c.Mg d.Fe Column-II (i).RuBisCO (ii) Catalase (iii)
Alcohol dehydrogenase (iv)Nitrogenase

A. a(iv),b(iii),c(i),d(ii)

B. a(i),b(iii),c(ii),d(iv)

C. a(iii),b(iv),c(i),d(ii)

D. a(iii),b(i),c(ii),d(iv)

Answer:



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453. Essential elements required for uptake and utilisation of Ca^{2+} , cell differentiation and carbohydrate translocation

A. Is absorbed as $B_4O_3^{2-}$ from soil

B. Occurs in plant tissues in large amount

i.e., greater than 10 mmole/kg of dry matter

C. Is not useful in membrane functioning

D. Helps in pollen germination and cell elongation also

Answer:



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454. Mark the mismatched pair

A. NAA- synthetic auxin

B. ABA- derivative of chlorophylls

C. Kinetin – N^6 furfuryl amino purine

D. Gibberellic acid- Terpenes

Answer:



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455. Choose correct options w.r.t. Essential elements for plant nutrition.

(a) absolutely necessary for normal growth and reproduction.

(b) Indirectly involved in plant metabolism.

(c) All the essential elements are components of biomolecules.

(d) The requirement of element is specific and cannot be replaceable by another element.

A. a & c

B. b & c

C. a & d

D. b & d

Answer:



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456. Phloem transport differs from translocation of water and minerals in plants in

- A. Its direction and dependence from transpiration pull
- B. Being transported in bulk from sink to source
- C. Occurring through living tissues don the turgor pressure gradient
- D. Being a physical process purely

Answer:



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457. Select incorrect statement w.r.t. guttation.

A. Guttated water has salts of cations and anions

B. Occurs through special structures at the vein endings in leaf

C. Manifestation of negative pressure developed in xylem vessels or tracheids

D. Due to positive pressure developed in root

Answer:



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458. The important determinants of movement of molecules in or out of the cell is

A. cell membrane

B. Tonoplast

C. Cell wall

D. More than one option is correct

Answer:



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459. Choose incorrect option w.r.t. Plasmolysis

A. Water is lost first from the vacuole and then from cell cytoplasm

B. Completely plasmolysed cell cannot regain its turgidity when placed in hypotonic solution

C. External solution occupies the space between shrunken protoplast and cell wall

D. Water moves out of the cell through diffusion

Answer:



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460. When water flows into the cell and out of the cell and are in equilibrium, the cells are said to be

A. Turgid

B. Plasmolysed

C. Flaccid

D. Neither flaccid nor turgid

Answer:



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461. Which of these decreases in a plant cell when solute molecules are added in cell cytoplasm?

- A. Osmotic pressure
- B. Osmotic potential
- C. Diffusion pressure
- D. More than one option is correct

Answer:



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462. Substances that have a hydrophilic moiety can move across the cell

A. Actively but are non-specific w.r.t. The carrier proteins

B. Using transport proteins and are not affected by protein inhibitors

C. With the help of a protein carrier

D. Along the concentration gradient using

ATP

Answer:



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463. Choose incorrect option

A. Chemical stimuli and PGRs sometime show polarised movement

B. Transport of substances in plants is complex but probably in a definite order and are sychronised

C. Nutrients are withdrawn from younger leaves and transported to the senescent regions

D. Substances move by diffusion, cytolysis and active transport over small distances

Answer:



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464. Substances like water, mineral nutrients, organic nutrients and plant growth regulators in plants

A. Can be over short or long distances

B. Are essentially transported without the use of cellular energy

C. Are always transported through vascular system

D. Have multidirectional transport only

Answer:



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465. Which of the following hormones are produced in the hypothalamus and stored in the posterior pituitary

- A. FSH and LH
- B. ACTH and ADH
- C. Prolactin and oxytocin
- D. Vasopressin and oxytocin

Answer:



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466. Steroid hormones are derived from

A. Amino acids

B. Cholesterol

C. Protein

D. Fatty acids

Answer:



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467. Mammalian prolactin is secreted by

- A. Neurohypophysis
- B. Adenohypophysis
- C. Adrenal medulla
- D. Hypothalamus

Answer:



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468. Find the correct option.

A. Glucocorticoid hormone is used for suppressing allergies, rheumatoid arthritis and inflammation

B. Cholecystokinin is an enzyme which catalyses chemical reactions of liver

C. Insulin helps in the conversion of glycogen to glucose

D. The disease in adults due to hyperactivity of thyroid gland is called Gull's disease

Answer:



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469. Which of the following is called emergency gland of the body?

A. Testis

B. Ovary

C. Adrenal medulla

D. Thymus

Answer:



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470. When both ovaries are removed in a female rabbit, which hormone is decreased in blood?

A. Estrogen

B. Gonadotropic releasing factor

C. Prolactin

D. Oxytocin

Answer:



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471. The hormones which respond to membrane bound receptors or extracellular receptor are

A. LH, estrogen, progesterone, thyroxine

B. Aldosterone, testosterone, FSH, LH

C. FSH, LH, glucagon, estrogen

D. FSH, LH, glucagon, insulin

Answer:



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472. Which of the following hormones is/are biogenic amines?

A. Epinephrine B. Dopamine C. Thyroxine D.

Melatonin The correct option is

A. B, C & D

B. A, B, C & D

C. A, B & C

D. A & D

Answer:



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473. Which of the following abnormalities of the eye can lead to blindness?

A. Glaucoma

B. Presbyopia

C. Myopia

D. Astigmatism

Answer:



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474. The lens and cornea is not having blood supply. So the nutrients are supplied by

A. Iris

B. Sclera

C. Vitreous humor

D. Aqueous humor

Answer:



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475. Internal ear is filled with

A. Perilymph

B. Endolymph

C. Lymph

D. Both (1) & (2)

Answer:



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476. Which of the cells in the retina help to sharpen the contrast?

- A. Ganglion cells
- B. Horizontal cells
- C. Rods and cones
- D. Bipolar cells

Answer:



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477. Ora serrata is

- A. A structure present in three semicircular canals
- B. A structure present in the utricle of ear
- C. Sensory posterior portion of the retina
- D. Non-sensory anterior portion of the retina

Answer:



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478. The receptors found in the muscles, tendons and joints are

- A. Exteroreceptors
- B. Proprioceptors
- C. Messiner corpuscles
- D. Telereceptors

Answer:



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479. Which part of the eye controls the amount of light entering in it

or

The black pigment in the eye which reduces the internal reflection is located in

A. Choroid

B. Iris

C. Sclerotic

D. Cornea

Answer:



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480. Deiter's clls occur in

- A. Retina of eyes
- B. Organ of Corti
- C. Sebaceous glands
- D. Utriculus

Answer:



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481. Autonomic nervous system regulates all, except

- A. Excretion
- B. Learning and memory
- C. Respiration
- D. Blood circulation

Answer:



482. Which of the following is not an effect of the sympathetic nervous system

- A. Dilation of the pupil
- B. Inhibition of peristalsis
- C. Elevation of blood pressure
- D. Stimulation of gastric juice

Answer:



483. Vagus nerve is composed of parasympathetic fibres. The preganglionic fibres forms a network in the walls of the gut.

This network is known as

A. Auerbach plexus

B. Choroid plexus

C. Nervous plexus

D. Brachial plexus

Answer:



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484. During repolarization of nerve

- A. Both Na^+ and K^+ gates remain open
- B. Both Na^+ and K^+ gates are closed
- C. Na^+ channels are closed and K^+ channels are open
- D. Na^+ gates open and K^+ gates closed

Answer:





485. In after cutting through the dorsal root of a spinal nerve of a mammal, an associated receptor in the skin were simulated, the animal would

- A. Show a fast response
- B. Show no response
- C. Still be able to feel the stimulus
- D. Show a slow response

Answer:



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486. Mark the odd from the following?

A. Pronator

B. Adductor

C. Ligament

D. Supinator

Answer:



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487. Structural and functional unit of contractile apparatus in striated muscle is

- A. Sarcomere
- B. Z-band
- C. Cross bridge
- D. A-band and Z-band

Answer:



488. Which of the following yield ATP during muscle contraction?

- A. Creatine phosphate
- B. Cholesterol
- C. Fructose
- D. Myoglobin

Answer:



489. Which term about functioning of muscles is wrong?

A. Fatigue - It is the inability of a muscle to contract due to depletion of chemical lactic acid

B. Thresold stimuli - Stimuli strong enough to cause a response

C. Muscle twitch - A single muscle contraction resulting from a single

stimulus

D. Tetanus - It is a continued in state of contraction caused by rapid succession of many stimuli

Answer:



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490. Which one of the following is an example of immovable joints?

A. Sutures

B. Gomphoses

C. Shindylasis

D. All of these

Answer:



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491. The bone common to cranium and face is

A. Temporal

B. Sphenoid

C. Parietal

D. Frontal

Answer:



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492. Find out incorrect match.

A. Flat bones - Skull bones, Sternum,

Vertebrae

B. Sesamoid bones - Patella, Fabellae,

Pisciform

C. Long bones - Humerus, Radius, Ulna,

Femur

D. Short bones - Carpals and Tarsals

Answer:



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493. The coxal of the pelvic girdle is formed by the fusion of

- A. Ilium, Scapula, Ischium
- B. Clavicle, Scapula
- C. Ilium, Ischium and pubis
- D. Ilium, Scapula, Clavicle

Answer:



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494. Which one of the following pairs of structures is correctly matched with their correct description

A. Cartilage and Cornea(Structure) No blood supply but do require for respiratory need(Description)

B. Premolars and molars (Structure) All are present in the three years old baby (Description)

C. Tibia and Fibula (Structure) Both from parts of knee joint

D. Tropomyosin and Myosin (Structure)

Both are contractile protein

(Description)

Answer:



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495. Select the correct statement

A. Myasthenia Gravis is an auto immune disorder which inhibits the sliding of myosin filaments

B. Inflammation of joints occur due to extra deposition of calcium

C. H zone is a skeleton muscle fibres is due to the central gap between myosin filaments in the A band

D. A decrease level of progesterone causes osteoporosis in old woman

Answer:



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496. Find out the incorrect statement about red muscle fiber

- A. Heme protein myoglobin is present
- B. Carry out aerobic contraction
- C. Red muscle fibres are thicker
- D. Slower in contraction rate

Answer:



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497. Articulation of ulna with humerus at the elbow joint is

A. Pivot

B. Elipsoid

C. Hinge

D. Ball and socket

Answer:



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498. The effect of anti-diuretic hormone on the kidney is to

- A. Decrease the excretion of k^+
- B. Increase the permeability of DCT to water
- C. Increase the excretion of Na^+

D. Increase the excretion of water to urine

Answer:



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499. Which of the following form uriniferous tubule?

A. Bowman's capsule and Glomerulus

B. PCT & DCT

C. Glomerulus only

D. Nephron & collecting duct

Answer:



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500. Which term is correct?

A. Ketonuria-presence of acetone bodies in
body

B. Azotaemia-accumulation of uric acid in
blood

C. Pyuria-WBCs or pus in the urine

D. Urinary inconvenience-lack of voluntary control over micturition

Answer:



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501. Angiotensin converting enzyme is secreted by

A. Blood capillaries of lungs

B. Blood vessels

C. liver

D. Kidney

Answer:



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502. Which of the following compounds are not reabsorbed in PCT?

A. Glucose vitamin C B. Amino acids, sodium and potassium ions C. Creatinine D. Bicarbonates

A. C D & E

B. A C & D

C. A C & E

D. Only C

Answer:



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503. Almost 1300ml of blood pressure through the kidney per minute. Out of this, 125 ml,

fibrate is formed by glomeruli per minute. So the normal filtration fraction is

A. 0.22 or 22%

B. 0.25 or 25%

C. 0.17 or 17%

D. 0.19 or 19%

Answer:



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504. The stage of ornithine cycle at which arginase enzyme is used?

A. Citrulline \rightarrow Arginosuccinic acid

B. Arginine \rightarrow Ornithine

C. Ornithine \rightarrow Urea

D. Ornithine \rightarrow Citrulline

Answer:



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505. Find out incorrect statement

- A. Maximum amount of urea is present in hepatic vein
- B. In human beings, uric acid is formed by purine metabolism
- C. A person suffering from muscular dystrophy eliminates creatinine in large amount of urine
- D. Breaking down of amino acids is called deamination which occurs in kidney

Answer:



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506. Match the columns w.r.t the process of translation (a) UTR (Column 1),(i) Catalyst (Column 2),(b) rRNA (Column 1),(ii) Template (Column 2), (c) mRNA (Column 1),(iii) reads the genetic code (Column 2),(d) tRNA (Column 1), (iv) For efficiency (Column 2)

A. a(i),b(ii),c(iii),d(iv)

B. a(iv),b(i),c(ii),d(iii)

C. a(iv),b(iii),c(ii),d(i)

D. a(ii),b(iii),c(iv),d(i)

Answer:



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507. Consider the following statements,

(a.The most interesting molecule with autocatalytic and heterocatalytic functions in the living system,

b. Most abundant genetic material,

c. Functions as adaptor or structural molecule,

d. A long polymer of deoxyribonucleotides

A. a, b & d

B. a, c & d

C. b, c & d

D. a, b, c & d

Answer:



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508. Select the incorrect statement

A. Cytosine the common purine for DNA
and RNA

B. A nitrogenous base is linked to pentose
sugar through a N-glycosidic linkage to
form a nucleoside

C. Thymine is present in DNA

D. In RNA every nucleoside residue has an
additional OH group at 2'-position in
ribose

Answer:



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509. Read the following statements-

(A)- The base pairing confers a very unique property to the polynucleotide chains of DNA i.e complementarity,(B)- Each strand from a DNA acts as a template for synthesis of a new strand.

A. Only A is correct

B. A and B both are correct

C. A and B both are incorrect

D. Only B is incorrect

Answer:



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510. Mark the incorrect match

A. Friedrich Meischer - First identified DNA

as an acidic substance in nucleus

B. Watson and Crick - Proposed double helix model of DNA

C. Frederick Griffith - Proved that DNA is hereditary material

D. Francis Crick - Proposed the central dogma

Answer:



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511. Match items in Column I with Column II (a) Bioinformatics (Column I),(i) Non-coding DNA (Column II),(b) Satellite- DNA (Column I),(ii) Genes which expressed as RNA (Column II),(c) ETS (Column I),(iii) Coding and non-coding DNA sequencing (Column II),(d) Sequence annotation (Column I),(iv) Computational techniques for genome sequencing (Column II)

A. a(iv),b(i),c(iii),d(ii)

B. a(iv),b(iii),c(i),d(ii)

C. a(iii),b(iv),c(ii),d(i)

D. a(iv),b(i),c(ii),d(iii)

Answer:



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512. Euchromatin said to be

A. Transcriptionally inactive

B. Densely packed

C. Loosely packed

D. Darkly stained

Answer:



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513. Consider the following facts about the salient features of structure of DNA.

- (a. Backbone constituted by sugar-phosphate,
- b. Anti-parallel polarity,
- c. chains coiled in right-handed fashion,
- d. Pitch of helix is 34 nm,
- e. Distance between a base pair in helix is 0.34

nm) Which of the above statements are correct?

A. a,b,c,e

B. a,b,d,e

C. a,b,d

D. b,c,d

Answer:



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514. Chargaff's rule is correctly exemplified by

A. $A + G = T + C$

B. $A + T = T + G$

C. $A + T = C + G$

D. $A + C = G + U$

Answer:



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515. Reverse central dogma results in the formation of special type of DNA called

A. B - DNA

B. Z - DNA

C. c- DNA

D. r - DNA

Answer:



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516. The process of copying genetic information from DNA with the help of DNA dependent RNA polymerase is called

- A. Translation
- B. Transformation
- C. Transduction
- D. Transcription

Answer:



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517. Select the odd one out w.r.t the process of DNA replication

A. In living cells, the process requires a set of catalysts

B. The DNA polymerase initiates the process on its own

C. The discontinuously synthesised fragments are later joined by enzyme DNA ligase

D. Any mistake during the process of replication would result into mutations

Answer:



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518. If the sequence of coding strand in the transcription unit is 5'-ACCACTCGGCCC-3', what will be the sequence of RNA transcribed?

A. 5'-ACCACUCGGCCC-3'

B. 3'-ACCACUCGGCCC-5'

C. 5'-UGGUCAGCCGGG-3'

D. 3'-UGGUCAGCCGGG-5'

Answer:



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519. Find the mismatch

A. Exons - coding sequence

B. Monocistronic structural genes -

Bacteria

C. hn RNA - Precursor of mRNA

D. Topoisomerase - Remove DNA supercoils

Answer:



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520. DNA in chromosomes replicates semi-conservatively, this was proved by Taylor and

Colleagues in 1958 by performing experiments on *Vicia faba* using

A. Radioactive uridine

B. Radioactive thymidine

C. Non - radioactive ^{15}N isotope

D. CsCl gradients and radioactive isotopes of sulphur

Answer:



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521. Select the incorrect statement

A. A gene codes for tRNA or rRNA

B. Splicing represents the dominance of
RNA world

C. Split-gene arrangements probably
represents an advanced feature of
genome

D. Introns do not appear in mature RNA

Answer:





522. Match Column - I with Column - II,(a) UGG(Column I),(i) Termination code(Column II), (b) GUG(Column I),(ii) Initiator codon(Column II),(c) UAA (Column I),(iii) Ambiguous codon(Column II),(d) AUG(Column I),(iv) Non - degenerate codon(Column II)

A. a(iv),b(i),c(iii),d(ii)

B. a(iv),b(iii),c(i),d(ii)

C. a(i),b(ii),c(iii),d(iv)

D. a(iv),b(iii),c(ii),d(i)

Answer:



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523. Many times the translation can begin much before the mRNA is fully transcribed in

A. Chlorella and Drosophila

B. Chlorodinium and Rhizobium

C. Chlamydomonas and Neurospora

D. Garden pea and pink mould

Answer:



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524. An unusual nucleotide is present in a.23S rRNA,b. 18S rRNA,c.t-RNA,d.m-RNA

A. c only

B. b & c

C. c & d

D. all a,b,c & d

Answer:



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525. Select the incorrect statement w.r.t. HGP

A. Human genome contains 3164.7 million nucleotide bases

B. 24 human chromosome, 22 autosomes and X and Y were sequenced

C. Around five percent of the genome codes for protein

D. Repeated sequence make up very large portion of the human genome

Answer:



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526. Consider the following statements regarding DNA fingerprint.

a)The technique was initially developed bt Alec

Jefferys,

b)Hybridisation using labelled VNTR probe.

c)Sensitivity of the technique has been increased by the use of PCR,

d)Sequences used for DNA fingerprinting generally code for many proteins,

e)Monozygotic twins have identical DNA fingerprints

A. all statements are correct

B. only 'd' is incorrect

C. d & e are incorrect

D. a,c,d & e are correct

Answer:



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527. Select the mis-match w.r.t. the functions of RNA polymerases in eukaryotes.

A. RNA pol-II transcribes precursor of Mrna

B. RNA pol-III transcribe all r-RNA

C. RNA pol-I transcribes 28S,18S & 5.8S

rRNAs

D. RNA pol-III transcribes tRNA , snRNAs

Answer:



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528. Polymorphism in DNA sequences

A. Arises due to variation at morphological

level

B. Are not used in genetic mapping

C. Nullifies evolution

D. Causes allelic sequence variaton

Answer:



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529. Classical plant breeding involves

A. Hybridisation of pure lines

B. Domestication

C. Tissue culture

D. Using molecular genetic tools

Answer:



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530. The entire collection of plants or seeds having all the diverse alleles for all genes in a given crop is called

A. Gene collection

B. Germplasm collection

C. Pure line collection

D. Variety collection

Answer:



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531. Select the odd-one out w.r.t. causative agents of following diseases.

A. Black rot of crucifers

B. Late blight of potato

C. Red rot of sugarcane

D. Brown rust of wheat

Answer:



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532. Resistance to yellow mosaic virus in *Abelmoschus esculentus* was transferred from a wild species and a new variety was produced, which is called

A. Pusa sawani

B. Pusa A-4

C. Parbhani kranti

D. Himgiri

Answer:



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533. High aspartic acid, low nitrogen and sugar content in maize leads to resistance in maize against

A. Aphids

B. Stem borers

C. Jassids

D. Stem sawfly

Answer:



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534. Select the incorrect statement w.r.t. Atlas

66.

- A. A wheat variety having high protein content
- B. Used as a donor for improving cultivated wheat
- C. Is a variety of mexican dwarf wheat
- D. Has been used for biofortification

Answer:



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535. Find the mis match

- A. Explant-plant part use for tissue culture
- B. Somaclones-varriation produced during micropropagation
- C. Callus - undifferentiated mass of cells
- D. Totipotency - capacity of generate a whole plant from any cell

Answer:



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536. Select the incorrect statement w.r.t somatic hybridisation

A. First somatic hybrid was obtained in species of tobacco

B. PEG used to naked protoplast

C. Involves fusion of protoplast of two plants belonging to different varieties, species and even genera

D. Has been achieved in the formation of
pomato

Answer:



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537. The cheese which is ripened by growing a specific fungi penicillium on them which gives them a particular flavour is

A. Roquefort cheese

B. Swiss cheese

C. Cheddar cheese

D. Hard cheese

Answer:



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538. The unopened spadices of palm *Caryota urens* are tapped and the sap is fermented to produce a traditional alcoholic beverage in some part of southern india called

A. Gin

B. Sake

C. Toddy

D. Ferny

Answer:



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539. Select the mis match

A. *Monascus purpureus* - Statins

B. *Trichoderma polysporum* - Cyclosporin A

C. *Clostridium butylicum* - Citric acid

D. Streptococci - Streptokinase

Answer:



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540. Consider the following statement, A- Major component of biogas is methane (50 – 70 %) which is highly inflammable, B-

Formation of biogas is complete an anaerobic process

A. Both A and B are incorrect

B. Only A is correct

C. Both A and B are correct

D. Only B is correct

Answer:



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541. Nucleopolyhedrovirus are

A. Broad spectrum insecticides

B. Effective against several plant pathogens

C. Harmful to non target insects

D. Used as biological control agents

Answer:



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542. A microbial biocontrol agent that can be used to control butterfly caterpillars is

A. *Bacillus thuringiensis*

B. Baculoviruses

C. *Trichoderma*

D. Dragon flies

Answer:



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543. select the incorrect match

- A. Rotenone - from roots of *Derris elliptica*
- B. Pyrethrum - From *Crysanthemum cinerarrifolium*
- C. Thuriocide - From *Azadirachta indica*
- D. Nicotine - From tobacco plant

Answer:



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544. How many given practices or measures are used by organic farmer for magnetic the oest and pathogens? (Neutral, predators, chemical methods, biological methods, conventional farming practices)

A. Three

B. Two

C. Four

D. Five

Answer:





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545. Microbes used as a biofertilizer in the aquatic environment are

- A. Glomus, Rhizobium
- B. Nostoc, Oscillatoria
- C. Azospirillum, Azotobacter
- D. Anabaena, Glomus

Answer:



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546. Which of the following does not affect Hardy-Weinberg equilibrium

A. Assortative mating

B. Random mating

C. Mutations

D. Gene migration

Answer:



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547. Which of the following regarding evolution is true?

A. Fitness is the end result of the ability to adapt

B. Homology is based on convergent evolution

C. Evolution of different species in a given geographical area starting from a point is adaptive convergence

D. All of these

Answer:



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548. A population of horses is split into two population by a new river bed that forms after a flood. After many generations, the river changes course and the population mix again. Which of the following indicates that the two population have formed two separate species?

- A. The population refuse to cross the dry river bed to interbreed
- B. The population do not interbreed freely in nature
- C. One population has twice as many horses with white spots as others
- D. The horses interbreed, but the offsprings are shorter either of the parents

Answer:



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549. The first organism on earth were thought to be

- A. Anaerobic autotrophs
- B. Photosynthetic
- C. Heterotrophs
- D. Anaerobic chemosynthetic

Answer:



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550. Which of the following lions has the greatest fitness according to darwin

A. A male that survives better in natural condition and leaves behind progeny of three cubs

B. A female that raises four of her young cousin

C. A male that is the leader of his social group is youngest and has two cubs of

its own

D. A male that has one cub from different females

Answer:



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551. In a small population of an endangered dessert rodent, which of the following poses a concern for the future of the species?

- A. Increase frequency of mutation in small population
- B. Absence of natural selection
- C. Lack of natural resources in desert
- D. Increased homozygosity of recessive alleles

Answer:



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552. if 9% of an African population is born with a severe form of sickle cell anaemia what percent of the population will be more resistant to the malaria scenes they are heterozygote for the sickle cell gene?

A. 81 %

B. 42 %

C. 0.03 %

D. 19 %

Answer:



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553. George Cuvier replacement of the species by another is caused by

A. massive number of mutation

B. the wrath of God

C. Extinctions due to catastrophes such as
floods

D. genetic inbreeding

Answer:



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554. The formation of two species from one ancestral species is known as

- A. convergent evolution
- B. divergent evolution
- C. parallel evolution
- D. stasigenesis

Answer:



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555. Different species of dragon flies do not mate with each other because the males of each species have appendages that can clasp and hold , for copulation only females of their own species. This is an example of

A. Behavioral isolation

B. genetic isolation

C. temporal isolation

D. mechanical isolation

Answer:



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556. choose the false statement

A. mutations are random and directionless

B. Hugo de Vries based his work on evening

primrose

C. Darwin's variation of small and non

directional

D. work of Thomas Malthus on populations

influenced Darwin

Answer:



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557. who gave the statement " any population have built variation in characteristics" ?

- A. Alfred Wallace
- B. Charles Darwin
- C. Thomas Malthus
- D. Lamarck

Answer:



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558. Stanley Lloyd Miller and Harold Urey simulated conditions on primordial earth in laboratory. which compounds did he obtained after the first experimental run?

A. urea

B. alanine, glycine, aspartic acid

C. Glycerol

D. Glucose

Answer:



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559. a horse has karyotype of 64 chromosomes and a donkey has karyotype of 62 chromosomes. deer offspring mule is sterile because it can not successfully

A. count other mules

B. complete development of zygote

C. Form gametes

D. Copulate with other mule, donkey, horse

Answer:



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560. which of the following represents the correct match between character and corresponding fossil?

A. intermediate horse - Hyracotherium

B. Ruminating horse - Mesohippus

C. Dawn horse - Merychippus

D. first one toed horse - Piohippus

Answer:



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561. which of the following should adaptive radiation after cretaceous tertiary boundary?

A. arthropods

B. mammals

C. reptiles

D. Bony fish

Answer:



562. the Tasmanian wolf(a marsupial) and American Timber wolf (a placental) may have evolved along similar lines because of similar selection pressure acting on similar gene pools. if so there an example of

- A. Homology
- B. parallel evolution
- C. coevolution
- D. convergent evolution

Answer:



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563. The theory "ontogeny recapitulates phylogeny" was proposed by

A. Charles Lyell

B. Ernst Mayr

C. Darwin

D. Ernst Haeckel

Answer:



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564. Australia has unusual organisms because their evolution for the past 3 million years has been

A. rapid

B. slow

C. isolated from other organisms

D. both (1) & (3)

Answer:



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565. which hominid if the first clear evidence of human culture (pebbles chipped into tools) in sights roughly 2 million years old and had brain capacity of 650-800 cc?

A. Neanderthal man

B. Homo habilis

C. Homo erectus

D. Australopithecus

Answer:



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566. which of the following was not an anatomy change in the evolution of Homo line Australopithecus?

A. development of monocular vision

B. greater modification of leaves for
corporate walking

C. increase in sexual dimorphism

D. increase in brain size

Answer:



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567. the earliest evidence of use of fire by
hominids belongs to species

A. Homo sapiens neanderthalensis

B. Homo sapiens fossils

C. Homo erectus

D. Homo habilis

Answer:



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568. comparison between which of the following chromosome of ape and man reveal a shared ancestry?

A. 6&9

B. 3&6

C. 3, 6&Y

D. 2, 6&Y

Answer:



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569. Select the incorrect match.

A. Lucy - Australopithecus africanus

B. Tuang baby - 450 c.c cranial capacity

C. Cro Magnon man - Cave paintings

D. Nut cracker man - Australopithecus with
massive jaws and jaw muscles

Answer:



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570. Arborescent lycopods, horse tails and ferns dominated land during

A. Silurian period

B. Devonian period

C. Carboniferous period

D. Triassic period

Answer:



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571. The skull of baby chimpanzee is more like?

A. Adult chimpanzee skull

B. Adult Gorilla skull

C. Adult human skull

D. Adult orangutan skull

Answer:



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572. Which of the following test can be used to identify causative agent of the symptoms listed below?

"Sustained high fever(39° to 40° $^{\circ}\text{C}$), weakness,

stomach pain, constipation, headache and loss of appetite."

- A. Gravidex test
- B. Wassermann's test
- C. WIDAL test
- D. Mantoux test

Answer:



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573. Choose the odd one out w.r.t viral disease.

A. Pneumonia

B. Influenzae

C. Dengue

D. Small pox

Answer:



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574. Select the incorrect match.

A. Disease : Common cold --- Causative agent : Rhino virus

B. Disease : Typhoid --- Causative agent : Salmonella typhi

C. Disease : Pneumonia --- Causative agent : Haemophilus influenzae

D. Disease : Plague --- Causative agent : Xenopsylla

Answer:



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575. When a female *Anopheles* mosquito bites an infected person, the parasite enters the mosquito's body in many forms. Which of these is the infective form for the mosquito?

- A. Sporozoite
- B. Gamete form
- C. Gametocyte

D. All of these

Answer:



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576. Presence of which of the following in man's blood is responsible for chill and high fever?

A. Haemoglobin

B. Mosquito's haemoglobin

C. Haemozoin

D. Both (2) & (3)

Answer:



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577. Various diseases can spread through inhaling the droplets/aerosols released by infected person. From the option given choose the diseases that acquired by this method. (a)

Diphtheria, (b) pneumonia, (c) Dengue, (d)

Malaria, (e) Dysentery, (f) Chikungunya

A. d, e, f

B. a, b, c

C. a & b

D. c & f

Answer:



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578. Which of the following is correctly matched w.r.t disease and organ affected?

A. Filariasis - Lymph nodes

B. Elephantiasis - Only right leg of infected individual

C. Amoebiasis - Small intestine

D. Enteric fever - Urinary bladder

Answer:



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579. The B-lymphocytes produce an army of proteins in response to pathogens into our blood to fight with them. These proteins are called

- A. Antigens
- B. Antibodies
- C. Antitoxins
- D. Epitopes

Answer:



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580. Which character has been incorrectly matched w.r.t type of immunoglobulin listed?

A. IgM - Number of antigen binding sites 10

B. IgA - Provide passively acquired immunity to foetus

C. IgE - Released in response to allergens

D. IgG - Provide passively acquired natural immunity to foetus

Answer:



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581. Which of the following is a source for production of hepatitis B vaccine?

A. Pig's intestine

B. Escherichia coli

C. Yeast

D. Cattle's pancreas

Answer:



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582. From the list given choose the helminthic diseases.

A. Ringworm

B. Ascariasis

C. Amoebic dysentery

D. Tetanus

Answer:



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583. All the following are bacterial diseases, except

A. Cholera

B. Typhoid

C. Polio

D. Gonorrhoea

Answer:



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584. Physiological barriers that prevent microbial growth include all, except

A. Acid in stomach

B. Saliva in mouth

C. Mucus coating of the epithelium lining
gut

D. Tears from eyes

Answer:



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585. Read the statements given below and mark the incorrect one

A. CMI is responsible for graft rejection

B. B cells produce immunoglobulins

C. Disulphide bonds are found between light and heavy chains in immunoglobulin molecules

D. IgM is major antibody formed in anamnestic response

Answer:



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586. If a person meets with a road accident, which of the following is administered?

A. Anti-venin

B. Tetanus toxoid

C. Anti-tetanus serum

D. IgA enriched colostrum

Answer:



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587. the low-temperature treatment that reduce the period between sowing and flowering is called

- A. venation
- B. vernalisation
- C. photoperiodism
- D. dormancy

Answer:



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588. The red absorbing form of phytochrome gets converted to the far - red absorbing form after getting irradiated at

A. $600nm$

B. $730nm$

C. $700nm$

D. $780nm$

Answer:



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589. movement of leaves in *Mimosa pudica* in response to stimulus is an example of

- A. Nyctinasty
- B. National movement
- C. Thigmonasty
- D. seismonasty

Answer:



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590. respiratory climatic is observed in

A. mango

B. strawberry

C. grapes

D. pineapple

Answer:



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591. Richmond Lang effect can be observed in plants by the treatment of

A. Cytokinins

B. ethylene

C. auxins

D. gibberellins

Answer:



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592. the hormone is responsible for early seed production in conifers and bolting is

A. Auxin

B. ABA

C. Gibberellin

D. cytokinin

Answer:



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593. which of the following plants can flower only if given photoperiod is more than critical day length

A. radish and soybean

B. wheat and henbane

C. tomato and oat

D. tobacco and sugarbeet

Answer:



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594. the plant hormone auxin was first isolated for

A. human urine

B. cotton fruits and rice plants

C. Avena coleoptile and the fungus,
Gibberella

D. rice seedling

Answer:



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595. match the columns. Column I (PGR) a. Auxins, b. Absciscic acid, c. Gibberellic acid, d. Cytokinins. Column II (chemical composition) (i) adenine derivatives, (ii) terpenes, (iii) indole compounds, (iv) Carotenoid derivatives

A. a(ii),b(i),c(iii), d(iv)

B. a(iii),b(iv),c(i),d(ii)

C. a(iii),b(iv),c(ii),d(i)

D. a(iv),b(iii),c(i),d(ii)

Answer:



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596. who's the collect 1 word environmental heterophyllous development in plants.

A. Cotton

B. coriander

C. buttercup

D. larkspur

Answer:



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597. substance whose RQ is less than one is

- A. glucose
- B. tripalmitin
- C. oxalic acid
- D. Malic acid

Answer:



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598. In how many steps, CO_2 is released in aerobic respiration of pyruvic acid

A. one

B. six

C. three

D. twelve

Answer:



599. both lactic acid and alcoholic fermentation

A. produce water as end product

B. produce CO_2

C. reduce $NAD^+ \in \rightarrow NADH + H^+$

D. release less than 7% of the energy contained in glucose

Answer:



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600. How many ATP molecules will be generated in a plant system during complete oxidation of 40 molecules of glucose?

A. 1440

B. 380

C. 1520

D. 3040

Answer:



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601. the mobile electron carriers attached to outer surface of inner membrane of mitochondria is

A. cytochrome - a

B. Ubiquinone

C. cytochrome - a_3

D. Cytochrome - c

Answer:



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602. Pasteur effect is concerned with the shifting of environmental conditions from

- A. Light to dark
- B. Aerobic to anaerobic
- C. Anaerobic to Aerobic
- D. Dark to Light

Answer:



603. during aerobic respiration which of the following conversion undergo both dehydrogenation and decarboxylation

A. PGAL \rightarrow BPGAL

B. Succinyl CoA \rightarrow Succinic acid

C. Pyruvic acid \rightarrow Acetyl CoA

D. Malic acid \rightarrow Oxaloacetic acid

Answer:



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604. Plants which can photosynthesize at as low temperature (upto – 35°C) are

- A. Conifers
- B. All phanerogams
- C. Xerophytes
- D. Tropical Plants

Answer:



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605. The C_4 plants are photosynthetically more efficient than C_3 plants because.

A. Photorespiration is absent

B. CO_2 compensation point is high

C. CO_2 generated during photorespiration is trapped and recycled through PEP carboxylase

D. All except (3)

Answer:



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606. the number of carbon atoms in first CO_2 acceptor A molecule and the first stable product B molecule in C_3 cycle is

A. A- 2C, B - 3C

B. A- 3C, B - 4C

C. A-5C, B-3C

D. A-3C, B-5C

Answer:



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607. oxygen evolving complex is

A. involved in regeneration of RuBP

B. Located towards stroma side of
membrane

C. involved in photolysis of water during
photosynthesis

D. associated with PSI

Answer:



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608. Kranz' anatomy and dimorphic chloroplasts are present in

A. Sugarcane and maize

B. Cotton and mustard

C. Pea and Euphorbia

D. Mango and Opuntia

Answer:



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609. How many components listed below are part of cyclic ETS & non-cyclic ETS, respectively? P_{700} , P_{680} , NADP reductase, Hydrogen carrier, PSI, Water splitting complex, PS II

A. Three & Seven

B. Four & Seven

C. Seven & Three

D. Four & Three

Answer:



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610. Choose the correct pair w.r.t. important discoveries in photosynthesis.

A. Julius Von Sachs- Sunlight is essential for photosynthesis

B. Jan Ingenhousz- H_2S is hydrogen donor in purple and green bacteria

C. Engelmann- First action spectrum of photosynthesis

D. Van Niel- Glucose is produced during photosynthesis

Answer:



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611. Fill in the blanks by choosing the correct option regarding chemiosmosis. "F₀ of ATPase enzyme forms a/an ___(i)___ that carries out ____(ii)___ diffusion of protons across the membrane. F₁ protrudes on the ____(iii)___ surface of the ____(iv)___ on the side that faces the ____(v)___."

A. (i) Extrinsic protein, (ii) Active, (v) Stroma

B. (i) Transmembrane channel, (iii) Outer,

(v) Stroma

C. (ii) Facillitated, (iii) Inner, (iv) Lumen

D. (iii) Outer, (iv) Lumen, (v) Thylakoid
membrane

Answer:



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612. During cyclic photophosphorylation (1) Only PSI is functional. (2) The electron is circulated within the photosystem. (3) Grana

lamellae is involved only. (4) Both ATP and $NADPH + H^+$ are synthesised.

A. (1) and (2) are incorrect

B. (3) and (4) are incorrect

C. (1) and (3) are correct

D. (2) and (4) are correct

Answer:



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613. Which one of the following is an amide found in plants and is structural part of protein?

A. Glutamic acid

B. Aspartic acid

C. Asparagine

D. All except (C)

Answer:



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614. Number of H^+ & e^- required for the formation of ammonia from nitrite during assimilation in plants are respectively

A. 6&12

B. 8&8

C. 6&6

D. 12&12

Answer:



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615. __A__ is the reduction of nitrates into gaseous nitrogen by the action of __B__

A. A - Nitrification, B - Pseudomonas

B. A - Ammonification, B - Nitrocystis

C. A - Denitrification, B - Thiobacillus

D. B - Nitrosomonas

Answer:



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616. How many of the given are the symbiotic N_2 fixing microbes found in root nodules of plants? Beijerinckia Frankia, Rhodospirillum, Rhizobium, Azotobactor

A. Two

B. Three

C. Four

D. Five

Answer:



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617. Excess of manganese may induce the deficiencies of

A. Ca, B, Zn

B. Ca, Fe, Mg

C. Mg, Mo, P

D. Fe, Cu, S

Answer:



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618. Which of the following is not caused by deficiency of mineral nutrients?

A. Necrosis

B. Chlorosis

C. Etiolation

D. Delay in flowering

Answer:



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619. Hydroponics is a technique of/for

- A. Growing aquatic plants only
- B. The commercial production of all vegetables except lettuce
- C. Growing plants in only purified water
- D. Growing plants in a balanced nutrient solution

Answer:



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620. Which one of the following is not an essential mineral element for plants

A. Calcium

B. Sodium

C. Magnesium

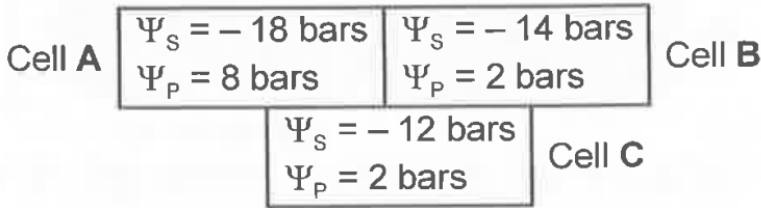
D. Iron

Answer:



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621. Find the direction of flow of water in the given system.



A. From cell B to cell A

B. From cell A to cell B

C. No flow of water between cell B and cell C

C

D. From cell A to cell C but not from C to A

Answer:



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622. Meaningful girdling (Ringing) experiments cannot be done on sugarcane because

- A. Phloem is present inside the xylem
- B. It cannot tolerate the injury
- C. Vascular bundles are scattered
- D. It has closed vascular bundles

Answer:



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623. All are related to root pressure, except

A. Guttation

B. Pushing of water to small heights

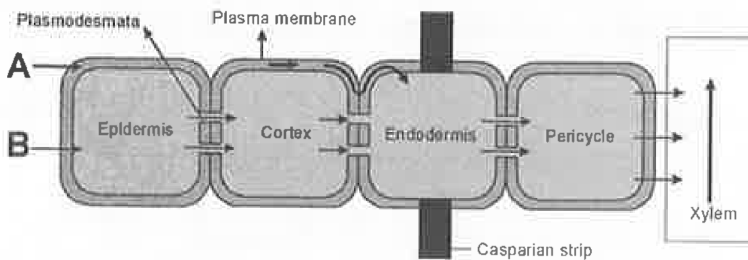
C. Pulling of water at the rate of 15 meters
per hour

D. Re-establishes continuous chain of water

Answer:



624. Choose regarding A and B.



A. A - involves mass flow of water due to adhesive and cohesive properties of water

B. B - movement of water is fast

C. A - involves system of interconnected
protoplast

D. B - does not involve crossing of cell
membrane

Answer:



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625. Lenticels and hydathodes are small pores
with following common attributes

- A. Their opening and closing are not regulated
- B. They allow exchange of gases
- C. They always remain closed
- D. They are found on the same organ of plants

Answer:



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626. Choose the incorrect match

A. Property : Highly selective - Means of transport : Facilitated diffusion

B. Property : Transport saturates - Means of transport : Active transport

C. Property : Uphill transport - Means of transport : Facilitated diffusion

D. Property : Slow process - Means of transport : Simple diffusion

Answer:



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627. When osmoreceptors are stimulated, they cause the release of some hormones from the "Hypothalamus and posterior lobe of pituitary gland". These hormones is/are - (a) Oxytocin (b) ADH (c) Vasopressin. Options are -

A. Only (a)

B. (a), (b) and (c)

C. Only (b) and (c)

D. Only (b)

Answer:



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628. Otolith organ consists of

A. Three semicircular canals

B. Sacculle and utricle

C. Organ of Corti

D. Crista ampullaris

Answer:



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629. Eyes of carnivore mammals glow during night, due to the presence of

A. Tapetum corneum

B. Tapetum lucidum celluloseum

C. Tapetum fibrosa

D. Luminescent cornea

Answer:



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630. What changes occur in eye when a student starts reading a book in a accommodation reflex?

A. Ciliary Muscles : contract, Suspensory

Ligaments : Relax, Curvature of lens :

Decrease, Power of lens : Increase

B. Ciliary Muscles : Relax, Suspensory

Ligaments : Contract, Curvature of lens :

Decrease, Power of lens : Decrease

C. Ciliary Muscles : Contract, Suspensory

Ligaments : Relax, Curvature of lens :

Increase, Power of lens : Increase

D. Ciliary Muscles : Relax, Suspensory

Ligaments : Contract, Curvature of lens :

Increase, Power of lens : Decrease

Answer:



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631. Choose the incorrect statement out of the following.

A. Nocireceptors are pain receptors in our visceral organs

B. Pacinian corpuscles are pressure receptors located deep in dermis

C. Meissner's corpuscles respond to touch and gentle pressure

D. Photoreceptors in human eye are hyperpolarised during darkness and become depolarised in response to light stimulus

Answer:



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632. Which of the following are the components of membranous labyrinth of human?

(a) 3-semicircular canals (b) Tympanum
(c) Macula (d) Utricule and saccule (e) Organ of Corti
(f) Cochlea (g) Ear ossicles

A. (a), (c), (d), (e), (f)

B. (a), (b), (c), (d), (f), (g)

C. (b), (e), (f), (g)

D. (a), (b), (c), (g)

Answer:



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633. Glaucoma is not associated with

- A. Increase in intra-ocular pressure due to accumulation of vitreous humor
- B. Increase in pressure on optic nerve causing its damage
- C. Blockage of canal of Schlemm

D. Term kala motia which may lead to permanent blindness

Answer:



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634. If a person sees a blurred image of a nearer object due to hypermetropia, the image of the object is formed

A. Behind the retina

B. On the retina

C. In front of retina

D. Blurred image on retina

Answer:



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635. Which of the following nerves are a part of parasympathetic nervous system and are called cranial autonomies?

A. III, IV, V, VI

B. III, VII, IX, X

C. V, VII, IX, X

D. III, V, VII, IX

Answer:



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636. Which of the following is not the function of hypothalamus?

A. it has thermoregulating centre

B. it has hunger and thirst centre

C. its secretes neurohormones

D. it controls respiration, cardiovascular reflexes, and gastric secretion

Answer:



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637. which of the following structure is not the part of prosencephalon/forebrain?

- A. cerebellum
- B. Olfactory lobes
- C. Diencephalon
- D. Cerebrum

Answer:



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638. $Na^+ - K^+$ pump stores during

A. Polarised state

B. when the potential difference between
outer and inner surface of membrane is
-70mv

C. on addition of ouabain

D. Resting potential

Answer:



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639. lateral ventricles open into diocoel through

- A. Foramen of Magnum
- B. foramen of Luschka
- C. foramen of Magendie
- D. Foramen of Monro

Answer:



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640. Meninges at the protective membranous covering of CNS. arranged am from inside to outside

A. Duramater - Arachnoid - Piamater

B. Arachnoid - Duramater - Piamater

C. Piamater - Arachnoid - Duramater

D. Arachnoid - Piamater - Duramater

Answer:



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641. which of the following best describes the electrical state of a neurone at rest?

A. the inside of the neurone is negatively charged and outside of the neurone is positively charged

B. the outside of the neurone is more negatively charged than the inside

C. the outside and inside have the same electrical charge

D. K^+ ions leak into a neurone at rest

Answer:



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642. During the first 5 minute before an interview, a person experiences sweating, increased rate of heartbeat and respiration. which part of nervous system and hormones are responsible for the restlessness respectively?

A. sympathetic nervous system, oestrogen
and progesterone

B. parasympathetic nervous system,
oxytocin and vasopressin

C. sympathetic nervous system, adrenaline
and noradrenaline

D. sympathetic nervous system, insulin and
glucagon

Answer:



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643. find the incorrect statement w.r.t. mechanism of hormone action

A. both the steroid hormones and iodothyronines bind to the intracellular receptors.

B. oestrogen regulate the gene expression by interaction of hormone receptor complex with genome.

C. adrenaline hormone binds with
membrane bound receptor.

D. progesterone requires cGMP as
secondary messenger

Answer:



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644. a tumor in adrenal cortex can produce all
of these conditions except,

A. Hirsutism

B. Bronze like pigmentation of skin

C. high blood pressure

D. wasting of muscles of limbs

Answer:



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645. which of the following statements is incorrect about melatonin ?

- A. secreted from the pineal gland which is ectodermal in origin
- B. synthesised from tryptophan
- C. it delays the onset of puberty in the people who are blind since birth
- D. it regulates the 24 – *hour* diurnal rhythm of body

Answer:



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646. match the following feature with their glands.

a. Sella tursica (features), (i) thymus (Glands).

b. Atropy with age(features), parathyroid (Glands).

c. Endemic disease(feature), Neurohypophysis (Glands).

d. Hypercalcemic hormone (feature), thyroid(glands)

A. a(iii), b(i), c(iv), d(ii)

B. a(iii), b(iv), c(i), d(ii)

C. a(ii), b(i), c(iv), d(iii)

D. a(ii), b(iv), c(i), d(iii)

Answer:



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647. cortisol stimulates/ produces all the following processes, except

- A. glycogenesis
- B. anti inflammatory reaction
- C. erythropoeisis
- D. gluconeogenesis

Answer:



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648. kidney secretes all the following except

- A. calcitriol
- B. Erythropoietin
- C. Angiotensinogen
- D. Renin

Answer:



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649. when immunoglobulin are synthesized in the body against the body's own cells, certain disorder are produced. which of the following is not an example of such a disorder ?

- A. Grave's disease
- B. IDDM
- C. toxic nodular Goitre
- D. Myasthenia gravis

Answer:



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650. a person suffers from some damage to hypothalamus. he passes nearly 6 litre of urine despite normal intake in 24 hours and his urine sample shows lack of ketone bodies, glucose and proteins. probably he is facing condition/ disorder terms as

A. diabetes insipidus

B. nephrosis

C. extreme starvation

D. Aldosteronism

Answer:



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651. Which of the following is not involved in knee-jerk reflex ?

A. muscle spindle

B. motor neurone

C. quadriceps femoris

D. interneurons

Answer:



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652. which out of these statement is not incorrect w.r.t neurohypophysis ?

A. its synthesis and secretes ADH into
bloodstream

B. it is under the control of releasing
factors of hypothalamus

C. it receives hormone from hypothalamo-
hypophysial portal vein

D. is releases oxytocin and vasopressin
synthesized by hypothalamus

Answer:



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653. which of the following is utilised as secondary messengers by adrenaline hormone?

A. cTMP

B. cAMP

C. cGMP

D. cCMP

Answer:



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654. rapid spasm in muscles due to low calcium in body fluid leading to tetany is caused probably by

- A. hyposecretion of PTH
- B. hyposecretion of Collip's hormone
- C. hyposecretion of mineralocorticoids
- D. hyposecretion of TCT

Answer:



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655. which of the following animal has the least concentrated urine relative to its blood plasma?

- A. birds
- B. human
- C. freshwater fishes
- D. camel

Answer:



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656. what is the renal plasma flow if GFR is

$125m \frac{l}{min}$. and filtration fraction is 20 % ?

A. $250m \frac{l}{min}$

B. $625m \frac{l}{min}$

C. $1137m \frac{l}{min}$

D. $1250m \frac{l}{s}$

Answer:



657. Ketonuria and glycosuria are the indicative of which disease?

- A. Diabetes insipidus
- B. Diabetes Mellitus
- C. Glomerulonephritis
- D. Cystitis

Answer:



658. All of the following statements are correct with respect to human kidneys, except

A. situated between the levels of last thoracic and third lumbar vertebra, close to the dorsal inner wall of the abdominal cavity

B. Kidneys are retroperitoneal

C. The right kidney is slightly higher than the left

D. Renal pelvis is internally lined with urothelium

Answer:



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659. Which one is incorrect w.r.t cortical nephrons?

A. These constitute nearly 85% of all nephrons

B. Vasa recta are absent or highly reduced

C. Loop of Henle is very short

D. Help in concentration of urine by
counter current mechanism

Answer:



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660. Ionocytes of the gill membrane in fresh
water fishes

A. Passively uptake monovalent ion from the surrounding water

B. Actively uptake monovalent ions from the surrounding water

C. Passively eliminate divalent ions into the surrounding water

D. Actively eliminate monovalent ions into the surrounding water

Answer:



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661. Glomerular filtrate is

A. Deproteinised plasma

B. Hypertonic to blood plasma

C. Hypotonic to blood plasma and lacks
plasma proteins

D. Blood without excretory wastes

Answer:



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662. An auto-immune disorder in which there is inflammation of synovial membrane, secreting abnormal granules and causing erosion of articular cartilage is

- A. Osteoarthritis
- B. Rheumatoid arthritis
- C. Gouty arthritis
- D. Myasthenia gravis

Answer:



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663. Which one of these is a mismatch

A. Fibrous joint - Tooth in the jaw socket

B. Cartilaginous joint - Pubic symphysis

C. Hinge joint - Between sternum and ribs

D. Pivot Joint - Between radius and ulna

below elbow

Answer:





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664. Nodding movement of head occurs due to the joint between

- A. Atlas and Vertebrae axis
- B. Atlas and occipital condyles
- C. Scapula and occipital condyles
- D. Cervical and thoracic vertebrae

Answer:



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665. Select the set of bones that share similarity in number in adult humans

(a) Tarsals in one hindlimb and movable bones in cranium,

(b) Cranial bones and the number of carpals in one forelimb,

(c) Bones in thoracic cage of adult human and bones in each forelimb,

(d) The bones of facial region and tarsals of both hindlimbs.

A. (a),(b) and (c)

B. (b) and (c)

C. (b) and (d)

D. Only (c)

Answer:



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666. Bone that is not the part of axial skeleton

is

A. Malleus

B. Frontal

C. Humerus

D. Parietal

Answer:



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667. Progressive degeneration of skeletal muscle mostly due to genetic disorder is

A. Myasthenia gravis

B. Muscular tetany

C. Multiple sclerosis

D. Muscular dystrophy

Answer:



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668. What is the role of Ca^{++} in muscle contraction?

A. It binds to tropomyosin, enabling troponin to move and reveal binding sites for cross-bridge formation

B. It binds to tropomyosin, enabling tropomyosin to move and reveal binding sites for cross-bridge formation

C. It binds to tropomyosin, enabling troponin to release ATP

D. It binds to troponin, enabling tropomyosin to release ATP

Answer:



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669. Which of the following remain unchanged during contraction of skeletal muscle fibres?

- A. Length between two consecutive Z-lines
- B. Length of actin filaments
- C. Length of an isotropic band
- D. Length of H-zone

Answer:



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