BIOLOGY

NEET & AIIMS

TEST 9

Example

1. Choose the odd w.r.t primary air pollutants.

A. CO_2

B. NO_x

C. Pollen

D. PAN

Answer: B

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2. Which of the given national park is for protection of lions?

A. Corbett National Park

B. Gir National Park

C. Kaziranga National Park

D. Kanha National Park

Answer: C

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3. Mark the odd one regarding in-situ conservation strategies.

A. National Parks

B. Wildlife sanctuaries

C. Sacred grooves

D. Zoological parks

Answer: D

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4. Extinction of cichlid fish from Lake Victoria is due to

A. Co-extinctions

B. Over--exploitations

C. Alien species invasions

D. Habitat loss and fragmentatin

Answer: A

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5. Which one of the following shows a pyramid of biomass in a pond ecosystem ?

A. Inverted

B. Upright

C. Spindle shaped

D. Either spindle shaped or upright

Answer: A

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6. The largest man-made ecosystem lackes all,except

A. High diversity

B. High productivity

C. Complex food chains

D. Frequent circulation of nutrients

Answer: B

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7. Which among the given interactions shows commensalism?

A. Clown fish and sea anemone

B. Ophrys and bumblebees

C. Cuckoo and crow

D. Fig and fig wasp

Answer:

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8. Identify the incorrect statement.

A. Allen`s rule says that mammals from colder climates generally have shorter

ears and limbs

B. Kangaroo rat meets its water requirement by internal fat oxidation

C. Desert lizards show physiological and behavioural adaptations to cope up with extreme tempareture

D. Xerophytes have thick cuticle and sunken stomata to minimise water loss through transpiration

Answer: C

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9. The majority of animals and nearly all plants

A. Are regulators

B. Are conformers

C. Hibernate during winters

D. Migrate temporarily from the stressful habitat

Answer:

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10. The gobar gas is a mixture of all of the given gases,except

A. CH_4

B. NO_2

C. CO_2

D. H_2S

Answer: B

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11. Select the incorrect match

A. Aspergillus niger - Citric acid

B. Clostridium butylicum - Butyric acid

C. Streptococcus - Statin

D. Trichoderma polysporum - Cyclosporin A

Answer: A

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12. The single cell protein is obtained from all,except

A. Yeast

B. Spirulina

C. Methylophilus methylotrophus

D. Toadstools

Answer: D

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13. Mark these statement as true (T) OR false (F) and select the correct option

In eukaryotes,only one type of DNA-dependent RNA polymerase transcribes all types of RNAs

The human gemone has approximately 30000 genes

The untranslate regions (UTRs) of m-RNA are required for efficient translation process.

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

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

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

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

Answer: D

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14. Identify the incorrect match.

A. i gene of lac - operon - Constitutive gene

B. a gene of lac - operon - Luxury gene

C. Single sequence repeat - Minisatellite

D. Negative control of lac-operon - Repressor

Answer: D

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15. If UUU codes for phenylalanine in most of the organisms then it shows that

A. Code is nearly universal

B. Code is degenerate

C. Code is ambiguous

D. All organisms share same genetic informations

Answer: C

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16. Which among the given enzymes is not composed of RNA?

A. Ribonuclease P

B. Snurp

C. RNA polymerase

D. Peptidyl tranferase

Answer: A

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17. How many alleles determine the skin colour in human beings?

A. 3

B. 6

C. 4

D. 2

Answer: B

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18. Identify the following statements as true (T) or false (F) and select the correct option.

Failure of segregation of homologous chromosomes during cell division leads to

aneuploidy.

Polyploidy is more common in plants.

Non -haemophilic parents cannot have a haemephilic child

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

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

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

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

Answer: B

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19. Phenylketonuria is

A. An example of pleiotrophy

B. An autosomal dominant disorder

C. Relatade to the mutation of multiple genes

D. An X-linked dominant disorder

Answer: B

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20. Formation of seed without fertilisation is known as

A. Syngamy

B. Parthenocarpy

C. Apomixis

D. Triple fusion

Answer: C

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21. Which of the given plant features promotes autogamy but never geitonogamy or xenogamy?

A. Bisexual flowers

B. Monoecious condition

C. Homogamy

D. Cleistogamy

Answer: A

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22. In majority of angiosperms

A. Have monosporic embryo sac

B. Show pollen dispersal at three called stage

C. Have ovule with micropyl,chalaza and funicle in straight line

D. Show hydrophily

Answer: B

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23. Meiosis occurs in the zygotes of

A. Bryophytes

B. Pteridophytes

C. Gymnosperms

D. Haploid algae

Answer: C

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24. Which of the following biomolecules is common to respiration-mediated breakdown of fats, carbohydrates and proteins

A. Cytochromoes

B. Pyrimidines

C. Amino acids

D. Carotenoids

Answer: A

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25. Plants with Kranz anatomy are related to all of the following, except

A. They show CO_2 fertilization effect

B. They have high tempareture optimum for photosynthesis

C. They are better adapted to semi-arid habitats

D. They lack photorespiration process

Answer: C

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26. Which of the given is/are not favourable factors(s) for cyclic photophosphorylation?

a. Low light intensity

b. Poor CO_2 avallability

c. Aerobic condition

A. a and b

B. a and c

C. b and c

D. Only c

Answer: C

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27. Select the wrongly matched option.

A. (1) Nitrobacter - Chemoautotrph

B. (2) Anabaena - Autotroph

C. (3) Rhodospirillum - Symbiotic N2 -fixer

D. (4) Rhizobium - Heterotroph

Answer: B

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28. Mark the incorrect statement.

A. Guttation is observed when root pressure is high and transpiration is low

B. Root pressure is a negative hydrostatic pressure

C. Root pressure develops due to active solute accumulation in root xylem

D. Root pressure provides only a modest push in the overall process of water transport

Answer: D

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29. When a pressure greater than atmospheric pressure is applied to pure water,its ψw

A. Increases

B. Decreases

C. Becomes zero

D. Remains same

Answer: B

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30. "`The two ____A___ together with spindle fibres forms ___B___".

Complete the above statement by chossing the correct option for A and B.

A. Microtubules Mitotic apparatus

B. Asters Mitotic apparatus

C. Microtubules Centriole

D. Asters Centriole

Answer: C

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31. Identify the cell organelle on the basis of given features.

a. Usually found near the nucleus

b. It has two faces, one convex and other concave

c. Site of post translational of proteins

A. Leucoplast

B. Golgi complex

C. Endoplasmic reticulam

D. Ribosome

Answer: D

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32. Choose the odd one w.r.t eukaryotic cells.

A. Cell membrane

B. Mesosomes

C. Lysosomoes

D. Ribosomes

Answer: D

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33. The stele of a dicot stem includes all,except

A. Vascular bundles

B. Pericycle

C. pith

D. Endodermis

Answer: B

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34. The only living element of xylem tissue

A. Has lignified walls

B. Is absent in monocots

C. Is involved in radial conduction of water

D. Is made up of many cells,fused together

Answer: B

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35. The aleurone layer is

A. Proteinaceous in nature

B. A part of embryo

C. Found in gram seeds

D. Inner covering of endosperm fused with embryo

Answer: A

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36. Identify the wrongly matched pair.

A. Free central placentation - Dianthus

B. Polyadelphous stamens - Citrus

C. Bilateral symmetry of flowers - Brassica

D. Standard petal of papillionaceous corolla - Vexillum

Answer: C

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37. Leaves modify into small, sharp-pointed structures in

A. Aloe

B. Citrus

C. Bougainvillea

D. Pistia

Answer: A

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38. Select the correct statement.

A. Haplo-diplontic life cycle is exhibited by both Ectocarpus and Fucus

B. The gametophyte is not independent and free living in pinus and pteris

C. Monocots are charaterised by single coyledonous seeds,parallel venation in leaves and trimerous flowers

D. Antheridium is found in bryophyta,pteridophyta and gymnosperms

Answer: C

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39. Choose the incorrect match.

A. Cycas - Coralloid roots

B. Pinus - Needle like leaves

C. Ginkgo - Heterosporous

D. Cedrus - Embryo sac

Answer: D

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40. In which of the following algae sexual reproduction takes place through flagellate and similar sized gametes?

A. Ulothrix

B. Spirogyra

C. Fucus

D. Eudorina

Answer: C

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41. A fungus with coencocytic mycelium develops on moist bread is

A. Rhizopus

B. Albugo

C. Puccinia

D. Alternaria

Answer: A

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42. Prions are

A. Larger than viruses

B. Abnormally folded genetic material

C. Causal agent of mad cow disease

D. Devoid of proteins

Answer: A

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43. Diatomaceous earth is formed by the group of irganisms popularly known as

A. Producer-decomposer protists

B. Chief producers in the ocean

C. Jokers of plant kingdom

D. Devoid of proteins

Answer: B

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44. Which of the following gene controls com borer?

A. cery I Ac

B. cry II Ab

C. Bt

D. cry I Ab

Answer: D

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45. Choose the correct match.

A. Agrobacterium tumefaciens - Crown gall in dicot plants

B. Thermus aquaticus - Bt gene

C. Hind II - Plasmid vector

D. Ligase - Molecular scissors

Answer: C

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46. Enzyme streptokinase obtained from bacteria Streptococcus is used clinically as

A. Surfactant in case of atelectasis

B. Clot buster in case of myocardial infraction

C. α_1`-antitrypsin in case of emphysema

D. Humulin

Answer: C

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47. If the gene of interest is cloned at ECoRI in pBR322, the recombinant E-coli after transformation are

A. Susceptible to ampicilin and tetracycline

B. Sensitive to tetracycline

C. Resistant to kanamycin

D. Resistant to ampicilin and tetracycline

Answer: C

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48. Fresh water fish does not include

A. Pomfret

B. Catla

C. Rohu

D. Common carp

Answer: B

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49. Breeding method that help to overcome inbreeding depression is

A. Outcrossing

B. Cross breeding

C. Inbreeding

D. Interspecific hybridisation

Answer: D

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50. Select the odd one w.r.t causative agent.

A. Typhoid

B. Pneumonia

C. Ringworms

D. Plague

Answer: D

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51. Leucocytes are responsible for humoral immune

A. T-lumphocytes

B. B-lymphocytes

C. Macrophages

D. Neutrophils

Answer: B

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52. Which of the following paires of organs represent adaptive convergence?

A. Flippers of penguins and dolphins

B. Forelimbs of human and horse

C. Heart of birds and mammals

D. Brain of human and fishes

Answer: A

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53. A gaseous mixture used in spark chamber of Miller`s experiment contained all of the following gases,except

A. Methane

B. Ammonia

C. Hydrogen

D. Oxygen

Answer: B

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54. Select the mismatch w.r.t function of contraceptives.

A. Oral contraceptive pills - Prevent ovulation

B. Barrier methods - prevents lactation

C. Vasectomy - prevents gamete transport

D.

Answer: A

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55. Steroidal oral contraceptive pills are consumed by females

A. On the day of ovulation

B. During first five days of menstrual cycle

C. During follicular phase of menstrual cycle

D. Once a week for first 4 months

Answer: B

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56. Select the incorrect statement w.r.t parturation.

A. Fully developed foetus and placenta induce mild uterine contractions

B. It is a complex neuroendocrine mechanism

C. Foetal ejection feflex triggers release of oxytocin from foetal pituitary

D. The signal for parturition is called foetal ejection reflex

Answer: D

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57. Male sex accessory ducts include all of the following structures except

A. Seminiferous tubule

B. Rete testis

C. Vasa efferentia

D. Vasa deferens

Answer: D

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58. Primary oocyte inside primary follicle is temporarily arrested in which stage of meiotic division?

A. Prophase I

B. Metaphase II

C. Anaphase I

D. Telophase I

Answer: C

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59. Complete the analogy

Amoeba: Simple binary fission::paramecium:

Choose the correct option.

A. Longitudinal binary fission

B. Simple binary fission

C. Oblique binary fission

D. Transverse binary fission

Answer: D

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60. Select the type of parthenogenesis in which diploid unfertilised eggs forms only females.

A. Arrhenotoky

B. Thelytoky

C. Amphitoky

D. Epitoky

Answer: C

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61. Select the incorrect match w.r.t earthworm.

A. Clitellum - 14^{th}) to 16^{th} segment

B. Female genital pore - 14^{th}) segment

C. Male genital pore - 18^{th} segment

D. Pharyngeal nephridia - 7^{th} and 9^{th} segment

Answer: C

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62. In cockroach,cuticle is not found in lining of

A. Body wall

B. Foregut

C. Hindgut

D. Midgut

Answer: D

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63. Birds differ from nonchordates due to presence of

A. True coelom

B. Bilateral symmetry

C. Feathery wings

D. Deuterostomic body plan

Answer: C

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64. Select the incorrect match.

A. Sycon - Spongocoel

B. Hydra - Coelenteron

C. Fasciola - Pseudocoelom

D. Pheretima - Schizocoelom

Answer: D

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65. All of the following statement are correct except.

A. In Balanoglossus,excretion takes place through proboscis gland

B. All vertebrates are chordates but all chordates are not vertebrates

C. Placoid scales are found in Osteichthyes

D. Mammary glands are defining character of all mammals

Answer: B

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66. True coelom evolved first in phylum

A. Annelida

B. Platyhelminthes

C. Aschelminthes

D. Arthropoda

Answer: C

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67. Read the following statements carefully in relation to hormones and choose the incorrect statement

A. Hypothalamic hormones are poured in venous blood

B. Hypersecretion of parathormone causes osteoporosis

C. Tumour of zona glomerulosa results in Conn`s disease

D. like enzymes,hormonal reactions are both intracellular as well as extracellular

Answer: D

68. Select the disease caused by both hyposecretion as well hypersecretion of a hormone

A. Dwarfism

B. Goitre

C. Acromegaly

D. Diabetes insipidus

Answer: C

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69. Which of the following statement is incorrect for hormones?

A. They are non-nutrient chemicals

B. Considered as intercellular messengers

C. Act only on their target cells through receptor

D. Fat soluble hormones act through secondary messengesr

Answer: C

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70. Read the following sentences and select the correct option given below.

A. Neutrons are structural and functional unit of neural tissue which can generate,detect,and transmit different kinds of stimull.

B. Schwann cells form both myelin sheath and neurilemma around axons in PNS.

A. Both A and B are correct

B. Both A and B are incorrect

C. A is correct but B is incorrect

D. A is incorrect but B is correct

Answer: C

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71. Innermost meninx is found invested on/in

A. White mater of brain

B. Gray mater of brain

C. Between duramater and arachnoid

D. Gray mater of spinal cord

Answer: A

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72. Select the mismatch.

A. Scapula - Situated in between 2^{nd} to 7^{th} ribs

B. Ball and socket joint - Humerous and pectoral girdle

C. Rib cage - Formed by vertebrae,ribs and stemum

D. Pelvic girdle - Aarticulates with thigh bone at public symphysis

Answer: C

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73. In a resting state, the central part of thick filament which is not overlappled by thin filament is called :

A. H - zone

B. Z - line

C. I - band

D. A - band

Answer: B

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74. Select the odd one w.r.t types of movements in human body.

A. Ciliary - Sperms

B. Flagellar - Male gamete

C. Amoeboid - Macrophage

D. Muscular - Biceps

Answer: C

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75. Select the incorrect match w.r.t disorders of the excretory system.

A. Uremia - Accumulation of uric acid in blood

B. Renal calculi - Crystallised salts of calcium oxalate

C. Glomerulonephritis - Inflammation of glomeruli

D. Glycosuria - Glucose in urine

Answer: B

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76. Elimination of nitrogenous metabolic waste products from the body is defined as

A. Excretion

B. Osmoregulation

C. Assimilation

D. Egestion

Answer: D

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77. Select the mismatch w.r.t formed elements.

A. Thrombocytes - Clotting of blood

B. Eosinophils - Allergic reactions of the body

C. Monocytes - Directly participate in phagocytosis

D. Basophils - Inflammatory reactions of the body

Answer: B

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78. The P_{50} value decreses in all of the following conditions,except

A. Fall inpCO_2

B. Increase in BPG level

C. Fall in tempareture

D. Fall in $\left[H^+\right]$ ions

Answer: B

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79. Select the incorrect match w.r.t pulmonary capacities and volumes.

A. TV=IC-IRV

B. FRC=IRV+RV

C. EC=ERV+TV

D. VC=IRV+TV+ERV

Answer: B

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80. The hepatopancreatic duct guarded by a sphincter called

A. Pyloric sphincter

B. Sphincter of Oddi

C. Sphincter of Boyden

D. Cardiac sphincter

Answer: D

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81. Select the incorrect statement w.r.t humans.

A. Starch and fat reach stomach totally undigested from oral cavity.

B. Dentition is heterodont,diphydont and thecodont

C. Muscularis externa mainly consists of outer longitudinal and inner circular muscle layer

D. Intestinal gland are present mainly in mucosal layer except Brunner`s glands

Answer: C

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82. In the following given options which one is mismatch?

A. Oxygen - Most abundant element in human body as well as earth`s crust

B. Retentate - Macromolecule containing insoluble fraction

C. Proteins - Homopolymer

D. Carotenoids - Secondary metabolites

Answer: A

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83. Which of the following compound is considered as a heteropolysaccharide?

A. Glycogen

B. Chitin

C. Starch

D. Hyaluronic acid

Answer: D

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84. Given table repsents epithelium with its location and function select the correct match.

A. Simple squamous - PCT of nephron in kidney - Reabsorption of water and electrolytes

B. Ciliated - Inner lining of oesophagus - Conduction of food particles

C. Simple columnar - Inner lining of intestine - Responsible for absorption only

D. Compound - Epidermis of skin - Protection

Answer: B

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85. _____ help to stop substances from leaking across a tissue.Choose the option which files the blank correctly.

A. Gap junctions

B. Adhering junctions

C. Tight junctions

D. Interdigitations

Answer: D

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86. Most effective greenhouse gas is

A. CO2

B. N20

C. CFCs

D. CH4

Answer: 1,3

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87. Biodiversity is maximum in tropics because

A. Speciation is a function

B. Tropics have less seasonal variation and relatively more predictable environment

C. trpics are more productive and can support a wider range of species

D. All are correct

Answer:

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88. Select incorrect for DFC

A. May be connected to GFC

B. Made up of heterotrophs mainly fungi and bacteria

C. Begins with dead organic matter

D. Much larger fraction of energy flows through DFC in aquatic ecosystem

Answer:

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89. Which of these protects the nutrients from being washed out and lost from the ecosystem?

A. Producers and decomposers both

B. Producers only

C. Decomposer microbes

D. Consumers of teritary level

Answer:

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90. Choose odd one out w.r.t. Protocooperation.

A. Barnacles -Whales

B. Crocodiles bird -Crocodile

C. Sea anemone -Hermit crab

D. Red-billed oxpecker -Black rhinoceros

Answer:

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91. Which one is an anatomical adaption in plants growing in dry habitats?

A. Stems become leaf like and are fleshy green

B. Deep penetrating roots

C. Well developed water storage tissue

D. Leaves modified to spines

Answer:

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92. Select incorrect w.r.t. sewage treatment plants.

A. In anarobic sludge digester,gases like methane,H2s and CO2 are also produced

B. Primary treatment of sludge is based on sequential filtration and sedimentation

C. Bacteria flocs are allowed to sediment in settling tank whwn BOD of sewage is high

D. Activated sludge is pumped into anaerobic sludge digesters to digest the bacteia and fungi

Answer:

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93. Strptokinase, a clot buster used to remove clots from blood vessels of patients of myocardical infraction is obtained from

A. Streptomyces

B. Genetically modified Streptococcus bacteria

C. Mortierella renispora

D. Candida lipolytica

Answer:

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94. What is not a significance of SCP?

A. Microbes could not meet the demand of food

B. Alternate source of proteins to remove hidden hunger

C. Can reduce pressure on agriculture

D. Reduces pollution

Answer:

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95. Prabhanl Krantl,a new variety of bhindi has been made resistant to yellow mosaic virus through

A. Introducing polyploidy and hybridisation both

B. Mass selection

C. Mutation breeding

D. Hybridisation

Answer:

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96. Iac operon in E.coil

A. Can never show positive regulation

B. Has y-gene for producing transacetylase enzyme

C. Remains switched off in absence of substrate

D. Consist a total of six transcribing genes

Answer:

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97. Select wrong statement w.r.t. transcription unit.

A. Regulatory sequences are present upstream to the structureal genes

B. Promoter is situated upstream to the structural genes

C. Coding strand codes for nothing

D. Presence of a promoter does not define the coding and template strands

Answer:

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98. Among the two nuclei acids,DNA is a better genetic material

A. As DNA is stable due to thymine

B. DNA lacks 2'-OH group in pentose sugar

C. DNA is chemically less reactive and structurally more stable than RNA

D. All are correct

Answer:

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99. CML in human is the result of

A. Frame-shift mutation

B. Duplication of DNA segment

C. Simple translocation

D. Reciprocal translocation

Answer:

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100. Interaction between two non-allelic genes in which a dominant gene has no expression of its own but can inhibit the expression of the other gene is

A. Inhibitory gene

B. Modified supplementary gene

C. Duplicate gene

D. Supplementary gene

Answer:

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101. Percentage of plants homozygous for round seeds and heterozygous for yellows

seeds in F2 generation of a typical dihybrid cross in pea plant is

A. 0.375

B. 0.25

C. 0.0625

D. 0.125

Answer:

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102. What is incorrect for pollination by water?

A. Emergent flowers above the level of water are pollinated by insects or winds

B. Pollination can take place inside or on water surface

C. All aquatic plants are pollinated by water

D. Pollen grains often possess mucilagenous sheath

Answer:

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103. In a mature two-celled pollen

A. The generative cell is smaller with denser cytoplasm

B. The exine is sculptured and continuous

C. The intine is discontinuous and made up of cellulose and pectin

D. The vegetative cell is bigger with abundant food reserve and has spindle

shaped nucleus

Answer:

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104. Organisms exhibiting external fertilisation

A. Show synchrony between the sexes and release of large number of gametes

B. Are disadvantaged by loss of the offsprings as they are vulnerable to

predators

C. Mostly depend upon water because water serves as medium for gamete transfer

D. All are correct

Answer:

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105. Clear cut vegetative, reproductive and senescent phases cannot be observed in

A. Mango and peepal

B. Annual plants only

C. Bamboo and apple

D. Mustard and carrot

Answer:

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106. Promotion of flowering in pineapple,abscission in older and mature leaves and apical dominance are function of

A. Ethylene

B. ABA

C. Auxins

D. Ausins and ABA

Answer:

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107. Plant growth regulator that plays an important role in plant responses to wounds and stresses of biotic and abiotic orgin is

A. Dreived from carotenoids

B. Associated with sees dormancy and abscission

C. Categorised as growth inhibitor

D. All are correct

Answer:

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108. Which of these inhibits ATP synthesis in mitochondria by inhibiting electron transport through complex IV

A. Cyanides

B. DNP

C. Oligomycin

D. Rotenone

Answer:

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109. Direct phosphoryaltion in glycolytic pathway of respiration.

A. Occurs when 2H atoms areremoved from glyceraldehyde 3-phosphate

B. Needs enzyme pyruvate kinase only

C. Occurs when triose bisphosphate is dephosphorylated to triose phosphate

D. Produces a total of 2 molecules of ATP per glucose

Answer:

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110. Select incorrect statement for RuBisCO.

A. Present in bundle sheath cells of C4 plants

B. Shows photorespiration due to osygenase activity

C. Most abundant enzyme on earth

D. Has less affinity for CO_2 than O_2

Answer:

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111. Photosynthetic yeild is increased when shorter and longer light wavelength are

simultaneously irradiated toa photosynthetic cell.This proves that

A. There are two pigment systems in chloroplasts

B. The two pigment systems are interconnected

C. Photolysis of water is essential for formation of assimilatory power

D. More than one is correct

Answer:

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112. Toxicity of Mn in plants

A. Competes with Fe for binding to enzymes

B. Reduce the fresh weight of tissues by about 10 per cent

C. Inhibits absorption of Ca2+ from soil

D. Produces brown spots surrounded by chlorotic veins in leaves

Answer:

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113. The greatest contribution of root pressure in plants is

A. Re-establishment of continuous water column in tracheary elements

B. Upward movement of water and minerals in herbaceous plants

C. Guttation

D. Active water absorption

Answer:

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114. Stomatal opening is promoted by

A. Out flux of H+ from subsidiary cell to guard cell

B. Conversion of starch into hexose

C. Increased osmotic pressure of guard cell

D. Accumation of malic acid in guard cell

Answer:

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115. Facilitated diffusion and active transport are similar in being

A. Require special membrane proteins but are not affected by protein inhibitors

B. Require cellular energy and sensitive to ETS inhibitors

C. Uphill transport across a membrane

D. Highly selective and show transport saturation

Answer:

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116. Formation of bivalents occur in _____stage of meiosis and is facilitated by_____

A. Pachytene,recombinase

B. Leptotene,recombinase

C. Zygotene,synaptonemal complex

D. Diplotene,synaptonemal complex

Answer:

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117. Prophase in mitotic cell division is characterised by

A. Absence of E.R.,gogli comolex,nucleolus and nuclear membrane at its beginning

B. Condensation of chromatin into chromosomes and their aligment at the equator

C. Initiation of the assembly of mitotic spindle

D. Chromosmes consisting of two chromatids not attached together at the centromere

Answer:

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118. Choose incorrect statement for nucleolus.

A. Polygonal structure present in nucleoplasm

B. Continuous with rest of the nucleoplasm

C. Site for active ribosomal RNA synthesis

D. Large sized and more in number in cells actively carrying out protein synthesis

Answer:

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119. Centriole and eukaryotic flagella resemble in

A. Possessing microtubules composesd of tubulins

B. Consisting two central singlets of microtubules

C. Absence of same number of peripheral microtubules

D. Presence of amorphous pericentriolar materials

Answer:

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120. Cell organelle that divides intracellular space of a cell into two compartment luminal space and extra luminal space

A. May have ribosomes attached by its smaller subunit

B. Preforms the function of packaging materials

C. Shows a distinct polarity and is situated near the nucleus

D. Is composed of tiny tubular structures scattered in the cytoplasm

Answer:

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121. Stele in a monocot stem

A. Includes all tissues inner side of endodermis

B. Consists internal phloem with parenchyma

C. Consist of open vascular bundles

D. Does not possess pericycle and pith

Answer:

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122. Choose odd one out w.r.t. secondary meristems.

A. Interfascicular cambium

B. Cambium in dicot root

C. Phellogen

D. Intrafascicular cambium

Answer:

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123. Which of these pair of modified structures are homologous?

A. Spines and thorns

B. Cladophyll and phyllode

C. Phylloclade and cladode

D. Phyllode and phylloclade

Answer:

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124. Distinguishing feature of angiospermic family Solanaceae are all,except

A. Syncarpous ovary with swollen placenta

B. Synandrous epipetalous stamens

C. Persistent calyx with valvate aestivation

D. Berry or capsule fruits with many endospermous seeds

Answer:

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125. In some plants a slender lateral branch arises from the base of the main axis and after growing aerially for some time arch downwards to touch the ground. Here we are taking about

A. Sucker

B. Stolon

C. Offset

D. Runner

Answer:

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126. Most common asexual spores among algae is

A. Perthenospores

B. Alkinetes

C. Aplanospores

D. Zoospores

Answer:

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127. Naked seeded plants differ from bryophytes and pteridophytes in

A. Possessing true stem,root and leaves

B. Absence of fertilisation through pollen tube

C. Absence of independent free living gametophytes

D. Presence of non-integumented megasporangium

Answer:

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128. Choose incorrect statement for club fungi

A. Prolonged dikaryotic phase in life cycle

B. Exogenously produced basidiospores

C. Dolipore septum present in all members

D. Karyogamy and meiosis occur in basidium

Answer:

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129. Archaebacteria can thrive well in some of the most harsh habitats like high temperature, low pH and high salinity because of

A. Only anaerobic respiration for ATP synthesis

B. Lipid monolayer in membrane without the phytanyl side group chains

C. Presence of 16 S rRNA

D. Their different cell wall composition

Answer:

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130. A species can be distinguished from the other closely related species on the basis of

A. Common ancestor

B. Distinct morphological features

C. Sharing a common gene pool

D. Being biologically interfertile

Answer:

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131. Which of the following recombinant protein is incorrectly matched with its function?

A. Factor IX - Treatment of haemophilia B

B. α-IFN - Treatment of emphysema

C. Reo Pro - Prevention of blood clots

D. Humulin - Treatment of diabetes mellitus

Answer:

 Watch Video Solution

132. Chemically synthesised hirudin gene has been transferred into

A. Zea mays

B. Gossypium

C. Brassica napus

D. Nicotiana tobaccum

Answer:

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133. Which of the following chemicals helps foreign DNA to enter the host cell?

A. Calcium chloride

B. Polyethylene glycol

C. Taq polymerase

D. Both (1) & (2)

Answer:

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134. A particular vector contains two types of origin of replication,one type functions in eukaryotic cell and another functions in Escherichia coli.A suitable example is

A. BAC

B. Yeast episomal plasmid

C. pBR322

D. pUC 8

Answer:

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135. Plant with hallucinogenic properties

A. Theobroma cacao

B. Thea chinensis

C. Papasaver somniferum

D. Atropa belladona

Answer:

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136. Which of the following statement is correct?

A. Interferons are glycolipids secreted by virus-infected cells to protect non-infected cells from viral infection

B. The symptoms of allergy are quickly reduced by adrenaline and steroids

C. Antibody mediated immune response is responsible for graft rejection

D. Colostrum contains IgA antibodies and provides natural active immunity to new born

Answer:

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137. Which of the following malarial parasites has the longest incubation period ?

A. Plasmodium malariae

B. Plasmodium falciparum

C. Plasmodium vivax

D. Plasmodium ovale

Answer:

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138. Which of the following could not be explained by the 'Darwin's Natural Selection Theory' ?

A. In a forest numerous young trees grow below the parent trees, but many of them perish

B. Evolution of various species of finches from a single group of ancestors that colonized the Galapagos islands

C. Giraffe has long neck and long legs

D. Retention of characters of no use or vestigial

Answer:

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139. Find out the incorrect match w.r.t. evolution of man.

A. Java Ape man - Sinanthropus erectus

B. Handy man - Homo habilis

C. Tuang baby - Australopithecus africans

D. Cro-Magnon man - Homo sapiens fossils

Answer:

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140. Which of the following statement is wrong about test baby?

A. the embryo more than eight blastomeres is transferred into the uterus

B. The ova and sperms used in the technique are obtained from wife and husband only

C. Fusion of sperm and ovum is done outside the body of female

D. The zygote or early embryo up to eight blastomeres is transferred into the fallopian tube

Answer:

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141. Which of the following oral contraceptive pill does not contain estrogen or progesterone?

A. POPs

B. Ortho-novum

C. Mala D

D. Saheli

Answer:

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142. Type of placenta in the human is

A. Allanto chorionic,contra-deciduate,disciodal

B. Metadiscoidal,haemochorial,chorionic

C. haemochorial,zonary,deciduate

D. Chorionic,metadiscoidal,haemoendothelial

Answer:

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143. In human female the blastocyst

A. Gets nutrition from uterine endometrial secretions only after implantation

B. Gets implanted in endometrium by trophoblast cell

C. Forms placenta even before implantation

D. Gets implanted into uterus three days after ovulation

Answer:

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144. Gravidex test for pregancy involves the check of

A. Thyroxine in blood

B. hCG in urine

C. Estrogen in blood

D. Progesterone in urine

Answer:

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145. Oestrus cycle is present in all of the following mammals,except

A. Horse

B. Deer

C. Gorilla

D. Pig

Answer:

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146. All of the following are functions of catecholamines except

A. Piloerction

B. Tachycardia

C. Pupillary constriction

D. Perspiration

Answer:

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147. Which of the following disease is not due to hyposecretion of its concerned hormone?

A. Diabetes insipidus - Hyposecretion of ADH

B. Tetany - Hyposecretion of parathormone

C. Myxodema - Hyposecretion of thyroid hormone in adults

D. Cushing's syndrome- Hyposecretion of cortisol

Answer:

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148. Which of the following cranial nerve controls the secretion of salivary glands?

A. VII

B. IX

C. III

D. Both (1) & (2)

Answer:

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149. What percentage of lactic acid is oxidised into CO_2 and water in liver during Cori's cycle?

A. 0.4

B. 0.8

C. 0.2

D. 0.5

Answer:

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150. The type of joint between metacarpals and phalanges of fingers is

A. Saddle

B. Pivot

C. Ellipsoid

D. Hinge

Answer:

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151. Biceps brings the forearm towards upper arm therefore it can be categorised under

A. Flexor muscle

B. Extensor muscle

C. Abductor muscle

D. Adductor muscle

Answer:

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152. What will happens if the parasympathetic nerve fibres innervating urinary bladder and internal sphincter are cut?

A. Pilyuria

B. Absence of micturition

C. Contraction of detrusor muscle

D. Frequent urination

Answer:

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153. Which of the following reaction is catalysed by renin secreted by juxtaglomerukare cells in kidney?

A. Angiotensin II rarr Angiotensinogen

B. Angiotensin II rarr Angiotensin I

C. Angiotensinogen rarr Angiotensin I

D. Angiotensin I rarr Angiotensin II

Answer:

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154. Which of the following vein is not a part of hepatic portal circulation?

A. Superior mesenteric vein

B. Gastic vein

C. Jugular vein

D. Cystic vein

Answer:

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155. Thoracic duct opens into

A. Cisterna chyli

B. Right lymphatic duct

C. Right subclavian vein

D. Left subclavian vein

Answer:

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156. Find out the correct sequence of transmission of cardiac impulse in heart during a cardiac cycle.

A. Purkinje fibres rarr Bundle of His rarr AVN rarr SAN

B. SAN rarr AVN rarr Bundle of His rarr Purkinje fibres

C. SAN rarr AVN rarr Purkinje fibres rarr AV Bundle

D. AVN rarr SAN rarr Bundle of His rarrPurkinje fibres

Answer:

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157. Which of the following are phagocytic cells of blood with bean shaped nucleus and agranular cytoplasm?

A. Neutrophils

B. Lymphocytes

C. Monocytes

D. Both (1) & (3)

Answer:

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158. Which of the following explains Haldane effect?

A. Bicarbonate ions diffuse out from RBCs into plasma, whereas chloride ions move from the plasma into RBCs

B. Excess of 2,3 diphosphoglycerate dissociates oxygen from haemoglobin

C. As carbon dioxide enters the systemic blood stream, it causes more oxygen to dissociate from haemoglobin

D. Combination of oxygen with haemoglobin causes the haemoglobin to become a stronger acid

Answer:

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159. In humans,volume of air that remains in the lungs after a normal expiration is

A. ERV + RV

B. TV + IRV + ERV

C. RV

D. TV + IRV

Answer:

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160. Which of the following is paired cartilage of larynx?

A. Cricoid catilage

B. Epiglottis

C. Cartilage of Santorin

D. Thyroid cartilage

Answer:

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161. Which of the following is target organ of secretin hormone?

(a)Pancreas

(b)Gall bladder

©Liver

(d)Stomach

A. b & d only

B. a,c & d

C. a,b,c & d

D. a &c only

Answer:

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162. Dental formula for the monophyodont teeth of human is

A. 0021/0021 X 2

B. 2122/2122 X 2

C. 2123/2123 X 2

D. 2102/2102 X 2

Answer:

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163. Find out the incorrect statement w.r.t. digestive organs in humans

A. The muscular coat in stomach comprises of outer of longitudinal muscles, middle layer of circular muscles and inner layer of oblique muscles

B. Pancreatic acini forms the main mass of pancreas and secretes pancreatic juice

C. Each hepatic lobule is covered by a thin connective tissue sheath called Glisson's capsule

D. In humans three pairs of salivary glands are loacted inside buccal cavity

Answer:

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164. Which of the following protein exhibits ß-related sheet structure?

A. α-keratin

B. Silk fibroin

C. Myoglobin

D. Collagen

Answer:

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165. Find out the correct set of homopolysaccharides

A. Cellulose,starch,glycogen

B. Chitin,inulin,pectin

C. Inulin,starch,peptidoglycan

D. Glycogen,hemicellulose,pectin

Answer:

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166. Which of the following is an incorrect match w.r.t. structure in cockroach and its total number?

A. Spiracles - 20

B. Malpighian tubules - 100-150

C. Ommatidia in one compound eye - 2000

D. Alary muscles -12

Answer:

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167. In male cockroach,middle layer of trilayered spermatophore is secreted by

A. Ejaculatory duct

B. Small tubules of mushroom gland

C. Long tubule of mushroom gland

D. Phallic gland

Answer:

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168. Spongy bone differs from compact bone is

A. Texture

B. Arrangement of lamellae

C. Absence of calcium salts

D. Both (1) & (2)

Answer:

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169. Male shark is able to transfer sperms to female shark with the help of

A. Claspers on dorsal fin

B. Claspers on caudal fin

C. Claspers on pectoral fins

D. Claspers on pelvic fins

Answer:

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