



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 94

Biology

1. Select the neuroendocrine process mechanism from the mentioned reproductive events.

I. Parturition

II. Lactation

III. Menstrual cycle

A. I and II

B. II and III

C. Only I

D. I,II and III

Answer: D



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2. The polysaccharide that is not made up of only one type of monosaccharide is

A. glycogen

B. cellulose

C. insulin

D. all of the above

Answer: C



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3. Barr body is absent in female of

A. Klinefelter's syndrome

B. Turner's syndrome

C. normal female

D. Down syndrome is female

Answer: B



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4. The lymphoid organ which provides the micro-environments for the development and maturation of T-lymphocytes is

A. bone marrow

B. thymus

C. Spleen

D. both (a) and (b)

Answer: D



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5. Enzymes that catalyse removal of groups from substrates by mechanisms other than hydrolysis, and addition of groups to double bonds, are called

A. hydrolase

B. ligase

C. lyase

D. isomerase

Answer: C



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6. Which one of the following statements about enzymes is true ?

1. Enzymes are proteins whose shape does not help in their functions.

2. Enzymes lower the reaction rate by lowering the activation energy

3. Enzymes do not show a high specificity during biological reactions.

4. Enzyme activity is affected by the change in temperature and pH

A. Only 2

B. Only 1

C. Only 3

D. Only 4

Answer: D



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7. Genes A and B are necessary for normal hearing. A deaf man marries a deaf woman

and all their children have normal hearing. The genotype of the parents are

A. $ppqq \times ppQq$

B. $ppqq \times PPqq$

C. $ppQQ \times ppQq$

D. $PPqq \times ppQQ$

Answer: D



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8. Select the option which correctly describes the types of diseases with its examples mentioned below:

A. Protozoan: Malaria , amoebiasis , cholera

B. Bacterial: Typhoid , kala-azar, leprosy

C. Viral : Dengue , chikungunya , covid

D. Helminthic : Ascariasis, elephantiasis ,
ring worm

Answer: C





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9. In animal cells lipid- like steroidal hormones are synthesized in

A. endoplasmic reticulum

B. glyoxysome

C. Spherosome

D. lysosome

Answer: A



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10. Find the number of ATP required in the reduction step of the C₃ cycle if the cycle is involved in the formation of one sucrose molecule.

A. 12 ATP

B. 24 ATP

C. 18 ATP

D. 6 ATP

Answer: B



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11. Read the following statements about morphine and select the option :

I. It is opioid drugs which binds to specific opioid receptors present in our brain and gastrointestinal tract.

II. The chemical diacetylmorphine is called smack or heroine.

III. Heroine is obtained by acetylation of morphine, extracted from the latex of cannabis sativa plant.

IV. Heroin is a central nervous system stimulant and causes hallucination.

A. I,II and III are correct

B. I,II and IV correct

C. II and III are incorrect

D. III and IV are incorrect

Answer: D



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12. Long day plants show flowering when

A. the light period is greater than their critical photoperiod.

B. the light period is lesser than the critical photoperiod.

C. the day length is longer than 15 hours but interrupted by short dark period.

D. the day length is shorter than a critical period.

Answer: A



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13. The luteal phase in the menstrual cycle of primate female is also called

A. secretory phase and lasts for about 13-14 days

B. follicular phase and lasts for about 6-7 days

C. proliferative phase and lasts for about

13-14 days

D. secretory phase and lasts for about 6-7

days

Answer: A



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14. Which of following mineral element is needed during the formation of mitotic spindle, accumulates in older leaves & is

involved in normal functioning of cell membrane?

A. Fe

B. S

C. Ca

D. Pd

Answer: C



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15. The trophoblast cells are not involved in the formation of

A. chorionic villi

B. protective and trophic membrane

C. vital organs of the embryo

D. fetal portion of placenta

Answer: C



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16. Which process results in decrease of nitrogen content in soil?

A. Ammonification

B. Biological nitrogen fixation

C. Denitrification

D. Nitrification

Answer: C



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17. Which of the following pair belongs to basidiomycetes?

- A. Puff ball and claviceps
- B. Morchella and mushroom
- C. Peziza and aspergillus
- D. Bracket fungi and puffball

Answer: D



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18. Which of the following is correct for artificial insemination method in animal breeding?

A. It is very economical and gives high rate of successful fertilization.

B. The semen is collected from superior bull can be used immediately or can be frozen at very low temperature for later use.

C. The frozen semen can be stored for a long period, and transported.

D. All of the above

Answer: D



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19. Match the column -I and II and choose the correct combination from the given option.

Column I		Column II	
(A)	Apomixis	(I)	Sunflower
(B)	Polyembryony	(II)	Banana
(C)	Parthenocarpy	(III)	Mango
(D)	Protandry	(IV)	Asteraceae

A. A - IV , B - III, C - II , D - I

B. A - IV , B - II, C - III , D - I

C. A - IV , B - I, C - II , D - III

D. A - I , B - II, C - III , D - IV

Answer: A



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20. Match the columns and select the correct option from the following.

Column I		Column II	
(A) Wheat rust	(I)	Edible	
(B) Antibiotics	(II)	Puccinia	
(C) Mushroom	(III)	Sac fungi	
(D) Ascomycetes	(IV)	Penicillium	

A. A - I, B - II, C - IV, D - III

B. A - I, B - IV, C - II, D - III

C. A - II, B - IV, C - I, D - III

D. A - II, B - IV, C - III, D - I

Answer: C



21. Select the incorrect statement about reproductive health :

A. Nearly 45 to 50 million MTPs are performed in a year all over the world.

B. Sexually transmitted diseases (STDs) are also called venereal diseases (VD) .

C. The intra-cytoplasmic sperm injection , the technique involves in vitro

fertilization.

D. Inability to conceive or produce children even after 9 months of unprotected sex is called sterility.

Answer: D



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22. The first restriction enzyme was isolated from which bacteria

A. E. coli

B. Haemophilus influenzae

C. Pseudomonas

D. Xanthomonas

Answer: B



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23. Read the following statements.

"Nature's biological library is burning even before we catalogued the titles of all the

books stocked there"

This statement is given in your NCERT book.

What would it mean

- A. loss of biodiversity
- B. environmental pollution
- C. fire in the library
- D. none of these

Answer: A



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24. In general, viruses that infect plants have

.....

A. dsDNA

B. dsRNA

C. ssDNA

D. ssRNA

Answer: D



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25. The applications of Biotechnology include,
(A) Therapeutics (B) Diagnostics (C) GM crops
for agriculture (D) Processed food (E)
Bioremediation (F) Waste treatment (G)
Energy production

A. A,B,C,E only

B. C only

C. B,C,D,E only

D. All of these

Answer: D



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26. Select the option with a correct representation of an animal to the below-mentioned class of vertebrates:

I. The jawless animal in which the body is devoid of scales and paired fins.

II. They have four pairs of gills that are covered by an operculum.

III. The body is covered by dry and cornified skin, epidermal scales or scutes.

IV. Skin is dry without glands and long bones are hollow with air cavities.

A. I - Calotes , II - Neophron , III - Clarius , IV - Lamprey

B. I - Clarius, II - Lamprey , III - Neophron , IV - Calotes

C. I - Lamprey , II - Clarius, III - Calotes , IV - Neophron

D. I - Lamprey, II - Calotes , III - Clarius, IV - Neophron

Answer: C



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27. Which of the following phosphorylation occurs in power house of eukaryotic cell?

- A. Oxidative phosphorylation
- B. Substrate level phosphorylation
- C. Photophosphorylation
- D. Both (a) and (b)

Answer: D



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28. Oxygen is very important for aerobic respiration, but oxygen never participates as a reactant in any reaction. What is the role of oxygen in cellular respiration?

A. It is terminal electron acceptor for aerobic respiration.

B. It is a nucleotide source for ATP synthesis

C. It functions as an electron carrier

D. It is the final electron acceptor for anaerobic respiration

Answer: A



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29. Aero allergens are found in which plants?

A. Petunia

B. Parthenium

C. Zostera

D. Maize

Answer: B



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30. Which of the following feature is common among Nereis, Pheretima and Hirudinaria?

A. Well developed clitellum for cocoon formation

B. Chitinous setae and parapodia for locomotion

C. Open circulatory system called haemocoel

D. Coelomate and metamerically segmented animals

Answer: D



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31. Which of the following transport mechanisms shows saturation of transport but does not show uphill transport?

A. Simple diffusion

B. Active transport

C. Facilitated diffusion

D. Both simple and facilitated diffusion

Answer: C



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32. The outermost limiting layer of a typical cell of mycoplasma is a

- A. Cell wall
- B. Cell membrane
- C. Slime layer
- D. Capsule

Answer: B



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33. Read the following statements about human evolution:

I. The skull of baby human is more like an adult chimpanzee skull than an adult human skull.

II. About two mya, Australopithecus probably lived in East African grassland.

III. The Neanderthal man with a brain size of 1400cc lived in the near East and Central Africa between 1,00,000-40,000 year back.

IV. Pre-historic cave art developed about

10,000 year ago.

How many statements is/are correct?

A. Four

B. Three

C. Two

D. One

Answer: C



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34. Read the following features given below:

I. Cells are thick at corner due to the deposition of cellulose, hemicelluloses and pectin.

II. Cells may contain chloroplast and get assimilated.

III. Intercellular spaces are absent.

IV. Provide mechanical support to growing parts of the plant such as young stem and petiole of the leaf.

These features describe which of the following?

A. Collenchyma

B. Parenchyma

C. Xylem

D. Sclerenchyma

Answer: A



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35. A Mitosis produces two identical daughter cell.

B Meiosis introduces variation due to gene

exchange or recombination.

C During anaphase chromosome have two chromatids.

D Telophase I may be absent.

Choose the option with the correct statements.

A. All are correct

B. A,B,C are correct

C. A,B,D are correct

D. C,D are correct

Answer: C



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36. All of the following are incorrect about evolution, except:

A. Evolution is a directed process in the sense of determinism

B. In a mixed population, the one that can better adapt, will not survive.

C. Evolution due to man made activity is called anthropogenic action.

D. Evolution is a stochastic process based on change events in organism and chance mutation in nature.

Answer: C



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37. Botanical gardens and zoological parks are collection of

A. Exotic living species only

B. Endemic living species only

C. Only local plants and animals

D. Endemic and exotic living species

Answer: D



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38. Which of the following is not present in the stroma of Chloroplast?

A. Double stranded circular DNA

B. 70S ribosome

C. 80s ribosomes

D. Enzymes required for dark reaction

Answer: C



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39. The first mammals which were originated on the earth similar to:

A. Dogs

B. Horses

C. Shrews

D. Monkeys

Answer: C



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40. The major part of the organic matter in the sewage water is decomposed in :

A. Primary treatment

B. Aeration tank/oxidation pond

C. Anaerobic sludge digester

D. Tertiary treatment

Answer: C



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41. Which of the following statements is/are correct ?

(A) Catalytic , converters have expensive metals like platinum , palladium and rhodium

as a catalyst.

(B) Air act was amended in the year 1987 to include noise as a pollutant.

(C) A scrubber can remove gases like sulphur dioxide from polluted air .

(D) ESP can remove 99% particulate matter from the exhaust of Vehicles.

A. (A), (B) and (C)

B. (B), (C) and (D)

C. (C) and (D)

D. (A), (B), (C) and (D)

Answer: D



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42. Three mile Island and Chernobyl incident are related to

- A. Soil pollution
- B. Water pollution
- C. air pollution
- D. radioactive pollution

Answer: D



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43. Match the following Column I with column

II:

	Column I		Column II
A	Methaemoglobin	I	Hb binds to CO_2
B	Oxyhaemoglobin	II	Hb binds to CO
C	Carboxy-haemoglobin	III	Hb binds to O_2
D	Carbamino-haemoglobin	IV	Hb has Fe^{3+}

A. A - IV, B - III, C - II, D - I

B. A - IV, B - III, C - I, D - II

C. A - II, B - III, C - IV, D - I

D. A - II, B - III, C - I, D - IV

Answer: A



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44. One advantage of cleistogamy is

A. It leads to greater Genetic diversity.

B. Seed dispersal is more efficient and widespread.

C. Seed set is not dependent pollinators.

D. Each visit of a pollinator results in the transfer of hundreds of pollen grains.

Answer: C



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45. The formation of two male gametes in flowering plants occurs by

A. meiosis of microspore mother cell

B. mitosis of microspore

C. mitosis of vegetative cell

D. mitosis of generative cell

Answer: D



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46. Which one of the following process does not occur during inspiration in humans ?

A. Contraction of internal intercostal muscles

B. Contraction of phrenic muscles

C. an overall increase in the volume of the thoracic chamber

D. the intra-pulmonary pressure decreases than atm . Pressure

Answer: A



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47. Select the incorrect statement from the following.

A. Trophic level represents a functional level , not a species level as such .

B. The pyramid of biomass in sea is generally inverted.

C. Pyramid of biomass is inverted for tree and forest ecosystems.

D. Energy at a lower trophic level is always more than at a higher level.

Answer: C



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48. How many of the following statements is /are correct about food chains ?

(1) GFC is the major conduit of energy flow in an aquatic ecosystem.

(2) Source of energy in the detritus food chain

is not directly the sun

(3) Detritus food chain may be connected to grazing food chain somewhere .

(4) In a grazing food chain, the size of organisms always decreases at higher levels.

A. One

B. Two

C. Three

D. Four

Answer: C



49. The absorption of monosaccharide such as glucose in the small intestine occurs by :

- A. Simple diffusion method
- B. Facilitated transport method
- C. Active transport method
- D. All of the above mention methods

Answer: D



50. How many from the list given below represent the example of primary succession ?

- a) Abandoned farmlands ,
- b) burned or cut-forest,
- c) newly cooled lava,
- d) lands that have been flooded,
- e) bare rock,
- f) a newly created pond.

A. Six

B. Three

C. Four

D. Five

Answer: B



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51. The specialised epithelial cells called podocytes are

A. the squamous epithelial cells of glomerulus of nephron

B. the cuboidal epithelial cells of glomerulus of nephron

C. the cuboidal epithelial cells of Bowman's capsule of nephron

D. the squamous epithelial cells of Bowman's capsule of nephron

Answer: D



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52. Among the given plant groups, the highest number of species diversity in the world is represented by ?

A. Lichen

B. Pteridophyte

C. Algae

D. Angiosperm

Answer: D



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53. Term biodiversity was popularised by -

A. Humboldt , a Geologist

B. Edward Wilson , a Sociobiologist

C. Robert may, a Environmentalist

D. Gause, a Ecologist

Answer: B



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54. Read the following four statements carefully:

I. About 70 ml of blood is pumped out by each Ventricle during a cardiac cycle is called the beat volume.

II. The fluid called lymph is almost similar to blood plasma without any exception

III. Heart failure simply means when the heart stops beating .

IV. Hypotension leads to heart diseases as well as damage to the brain , kidney and other vital

organs.

How many from the above is/are correct ?

A. Four

B. Three

C. One

D. Two

Answer: C



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55. Prop roots of Banyan tree are meant for

A. respiration

B. storage

C. mechanical support

D. All of the above

Answer: C



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56. How many light quanta or photons are required for the synthesis of one O_2 molecule during the process of photosynthesis ?

A. 48

B. 1

C. 8

D. 12

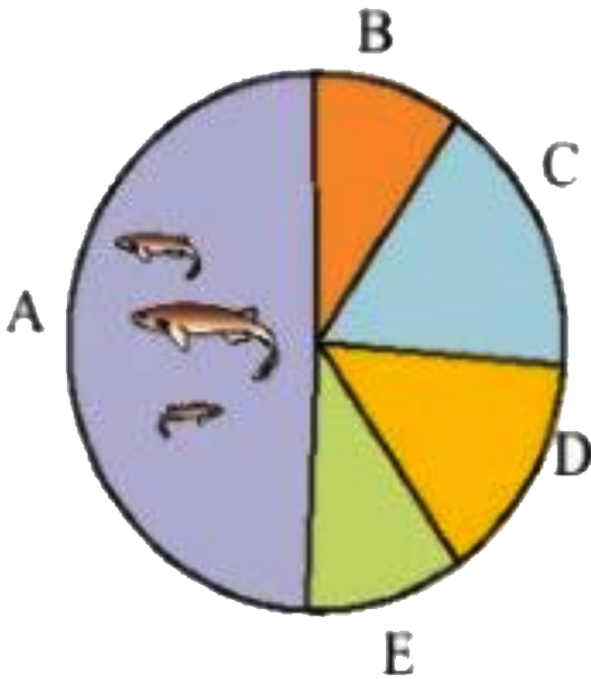
Answer: C



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57. A and C are vertebrate groups having a varied number of species globally . Select the correct option.

Vertebrates



A

A	C
---	---

Fishes	Birds
--------	-------

B

A	C
Birds	Mammals

- A. A C
Fishes Birds
- B. A C
Birds Mammals
- C. A C
Reptiles Birds
- D. A C
Fishes Mammals

Answer: A



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58. Which one is an example of a biennial and monocarpic plant ?

A. Wheat

B. Agave

C. Sugarbeet

D. Banana

Answer: C



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59. Match the column and select the correct option.

	Column I		Column II
(A)	Funicle	(I)	Main part of ovule
(B)	Filiform apparatus	(II)	Protection
(C)	Integument	(III)	Outgrowth in ovule
(D)	Nucellus	(IV)	Connect placenta and main body of ovule
		(V)	Synergids

A. (A) - I, (B) - II, (C) -III , (D) -IV

B. (A) - IV,(B) - V, (C) -II , (D) -I

C. (A) - V, (B) - IV, (C) -I , (D) -II

D. (A) - III, (B) - I, (C) -II, (D) -V

Answer: B



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60. The T - wave of a standard ECG represents :

- A. Repolarisation of both ventricles
- B. Returning of ventricles from excited to normal state
- C. Ends of T - wave marks the end of systole
- D. All of the above

Answer: D



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61. Which of the following feature is common to bacteria , mosses and fungus ?

- A. Mode of nutrition
- B. Presence of cell wall
- C. Autotrophic
- D. Body organization

Answer: B



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62. Which of the following organ never helps, in Oxygenation of blood in any vertebrate , at any stage of their life ?

A. Skin

B. Lungs

C. Gills

D. Kidney

Answer: D



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63. Sexual reproduction is of isogamous, anisogamous and oogamous they in :

A. Chlorophyceae , Rhodophyceae and phaeophyceae

B. Rhodophyceae and phaeophyceae

C. Chlorophyceae , phaeophyceae

D. Chlorophyceae , Rhodophyceae

Answer: C



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64. Select the pair of hormones having a similar mechanism/mode of action .

A. Glucagon and cortisol

B. Estrogen and LH

C. Oxytocin and FSH

D. Thyroxine and insulin

Answer: C



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65. Select the best option with the correct sequence of events in the cycle of Bryophytes :

(I) Germination of spores

(II) Formation of gametes.

(III) Formation of gametophyte .

(IV) Fertilization of gametes to form an

embryo .

(V) Formation of sporophyte.

A. I, III ,IV ,V, II

B. III, VI ,V ,II, I

C. III, II ,IV ,V, II

D. V, I ,II ,III, IV

Answer: C



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66. Select the option which correctly describes the function of given hormones.

A. Parathormone : Decreases blood Calcium

B. Cortisol : Decreases blood glucose level

C. Vasopressin : stimulates reabsorption of



D. Androgen : Stimulates erythropoiesis

Answer: D



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67. The reduced leaf found at the base of the pedicel is known as

- A. leaflet.
- B. stipule.
- C. bract.
- D. calyx.

Answer: C



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68. Epipetalous stamens are found in :

A. Trifolium

B. Brinjal

C. Asparagus

D. Indigofera

Answer: B



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69. Gonadotropin releasing hormones are correct by

A. Adenohypophysis .

B. Neurohypophysis

C. Hypothalamus

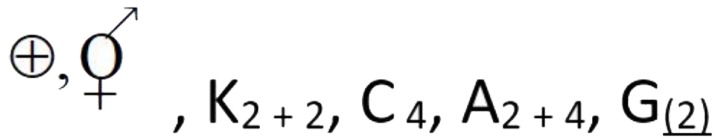
D. Both (A) and (B)

Answer: C



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70. Name the family to which the following floral formula belongs.



A. Solanaceae

B. Liliaceae

C. Brassicaceae

D. Fabaceae

Answer: C



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71. Find out the set of bones that are not included in the axial skeleton.

- A. Clavicle, Scapula, Coxal
- B. Sternum, Ribs , Skull
- C. Vertebrae, Cranial , Ribs
- D. Skull , Sterum , Vertebrae

Answer: A



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72. Select the incorrect statement from the following.

A. In spring season cambium is more active and produces a large quantity of xylem having vessels with wider lumen.

B. The spring wood is also known as early wood.

C. In winter , the cambium is less active and forms less xylem elements having

narrow vessels this is called autumn wood or late wood.

D. The spring wood is dark in colour and has lower density.

Answer: D



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73. The globular head of a heavy meromyosin part of meromyosin has :

- A. Actin binding sites
- B. ATP binding sites
- C. ATPase enzyme activity
- D. All of the above

Answer: D



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74. The face of the Golgi apparatus receives the materials packaged in the form of vesicles from the ER is

A. cis face.

B. trans face.

C. both (A) and (B)

D. none of these

Answer: A



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75. Select the option which describes the correct parts of the human brain with the functions mentioned below:

I. It contains association areas that are responsible for complex functions like intercessory associations, memory and communication.

II. It controls osmolarity of body fluids, urges for eating and drinking.

III. It is involved in the regulation of sexual behaviour , expression of emotional reactions.

IV. It controls cardio - vascular reflexes and gastric secretions.

A. I-Cerebrum, II - Medulla, III - Limbic system, IV - Hypothalamus

B. I- Cerebellum , II - Hypothalamus, III -
Cerebrum , IV - Medulla

C. I-Cerebral, II - Medulla, III - Hypothalamus,
IV - Limbic system

D. I - Cerebral cortex, II- Hypothalamus, III-
Hypothalamus and Limbic system, IV -
Medulla

Answer: D



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76. Select the total number of the correct statement:

I. Cell - plate formation occurs in plant cell during cytokinesis.

II. During cytokinesis .mitochondria and plastid gets distributed between two daughter cells in mitosis

III. Liquid endosperm in coconut is syncytium

IV. Furrow formation occurs in the animal cell during cytokinesis.

A. 1

B. 2

C. 3

D. 4

Answer: D



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77. The neuron in the embryonic stage of human has :

A. Cells body with one axon only

B. Cell body with one axon and one dendrite

C. Cell body with one axon and many dendrite

D. Cell body with no axon and no dendrite

Answer: A



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78. Environmental heterophylly is observed in :

A. Cotton

B. Coriander

C. Larkspur

D. Buttercup

Answer: D



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79. What is correct about the electron transport system ?

A. Energy stored in ATPs is utilised for synthesis of $NADH + H^+$

B. Energy stored in ATPs is utilised for synthesis of $FADH_2$

C. Energy stored in $NADH + H^+$ and $FADH_2$ is utilized for synthesis of ATPs.

D. Energy stored in glucose is utilized for synthesis of $NADH + H^+$, and $FADH_2$ only.

Answer: C



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80. A man of 'A' blood group marries a woman of 'AB' blood group. Which types of progeny would indicate that man is heterozygous?

A. AB

B. B

C. A

D. More than one option is correct

Answer: B



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81. On an average, female cockroach produceP.....oothecae, each containingQ.....eggs. Select the appropriate option for P and Q.

A. $P - 9 - 10, Q - 16 - 18$

B. $P - 9 - 10, Q - 14 - 16$

C. $P - 14 - 16, Q - 9 - 10$

D. $P - 14 - 16$, $Q - 10 - 12$

Answer: B



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82. Match the following

Disease		Pathogen
<i>a</i> Red rot of sugarcane	(<i>i</i>)	Virus
<i>b</i> Root - knot of tobacco	(<i>ii</i>)	Bacteria
<i>c</i> Black rot of crucifers	(<i>iii</i>)	Nematode
<i>d</i> Turnip mosaic	(<i>iv</i>)	Fungi

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

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

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

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

Answer: C



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83. One of the parents of a cross has a mutation in its mitochondria. In that cross, that parent is taken as a male. During

segregation of F_2 progenies that mutation is found in

- A. All of the progenies
- B. All male progenies
- C. 50% of the progenies
- D. None of the progenies

Answer: D



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84. In the diploblastic animals :

A. Mesoderm and mesoglea both are absent

B. Mesoderm is present but mesoglea is absent

C. Mesoderm is absent but mesoglea is present

D. Mesoderm and mesoglea both are present .

Answer: C



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85. Which of the following is not true for an anticodon?

- A. It consists of three nucleotides
- B. It is basic unit of genetic code
- C. It is present of tRNA molecule
- D. It may pair with more than one codon

Answer: B



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86. In DNA percentage of thymine is 20, then what is the percentage of guanine ?

- A. 20 %
- B. 40 %
- C. 30 %
- D. 60 %

Answer: C



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87. Gap junctions are present in :

- A. Epithelial tissue
- B. Cardiac muscles
- C. Single unit smooth muscle
- D. More than one option is correct

Answer: D



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88. Which one of the following is not correctly matched ?

A. Transcription - synthesis of DNA from RNA.

B. Translation - Using information in mRNA to synthesis protein .

C. Repressor protein - Binds to operator to stop transcription of structural gene.

D. Operator - Structural genes, operator, promoter and inhibitor.

Answer: A



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89. Match the following column and select the correct option.

	Bioactive substance		Role
(i)	Statin	(A)	Removal of oil stains
(ii)	Cyclosporin A	(B)	Removal of clots from blood vessels
(iii)	Streptokinase	(C)	Lowering of blood cholesterol
(iv)	Lipase	(D)	Immunosuppressive agent

A. i-B,ii-C,iii-A,iv-D

B. i-D,ii-B,iii-A,iv-C

C. i-D,ii-A,iii-B,iv-C

D. i-C,ii-D,iii-B,iv-A

Answer: D



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90. Select the false statement from the following.

A. Genetic engineering includes techniques to alter chemistry of genetic material (DNA and RNA).

B. Sexual reproduction is more advantageous than asexual reproduction.

C. Genetic engineering allows us to introduce desirable set of genes without the undesirable gene into the target organism.

D. Plasmid is autonomously replicating
linear extra chromosomal DNA.

Answer: D



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