BIOLOGY

NEET & AIIMS

MOCK TEST 13

Example

1. Cells of the cambium present between primary xylem and primary phloem is

A. Intrafascicular cambium

B. Interfascicular cambium

C. Wound cambium

D. Cork cambium

Answer: A

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2. Early wood

A. Is formed during autumn season

B. Has vessels of narrow cavities

C. Has large number of xylary elements

D. Is formed when cambium is less active

Answer: C

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3. Heartwood differs from sapwood as

A. It is peripheral

B. It is lighter in colour

C. It helps in conduction of water and minerals

D. It comprises of dead elements with highly lignified walls

Answer: D

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4. All tissues exterior to vascular cambium is called bark which indudes

A. Phellogen + secondary xylem

B. Periderm + secondary xylem

C. Periderm + secondary phloem

D. Cork cambium + primary xylem

Answer: C

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5. Choose the correct option w.r.t. origin of vascular cambium in dicot root.

A. Completely primary

B. Completely secondary

C. Partly primary partly secondary

D. Cambium is not formed at any stage

Answer: B

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6. Read the following statements wrt artificial system of dessification (a) Involves usage of one or few morphological characters for

grouping of organisms. (b) Aristotle used sexual characters as they are affected by environment. (c) Linnaeus gave sexual system of classification (d) Gave equal weightage to vegetative and sexual characteristics , Select the correct option

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

B. (a), (b) & (c)

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

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

Answer: C

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7. Select the odd one out w.r.t. proponents of phylogenetic system of classification

A. Hutchinson

B. Engler & Prantl

C. Joseph Dalton Hooker

D. Takhtajan

Answer: C

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8. Study of raphides form the basis of

A. Phenetics

B. Cytotaxonomy

C. Karyotaxonomy

D. Chemotaxonomy

Answer: D

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9. Select the incorrect statement w.rt phenetics

A. Numbers and codes are assigned to all observable characters

B. All observable characters are given equal Importance considering sexual characters on the topmost priority

C. Organisation and analysis of data forms core of numerical taxonomy

D. Notations like '0', + and - are used for data not available, presence and absence of character respectively

Answer: B

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10. Which of the following taxonomy is based on chromosome structure and behaviour?

A. Chemotaxonomy

B. Cytotaxonomy

C. Karyotaxonomy

D. Both (2) and (3)

Answer: D

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11. Choose the Incorrect option w.r.t. general characters of algae.

A. Are mainly aquatic

B. Reproduces asexually only

C. Shows variation in size

D. Are atracheophytes

Answer: B

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12. Oogamous reproduction in algae involves

A. Male gamet- motile, female gamate - non-motile

B. male gamate -non-motile, female gamate motile

C. male gamate- non-motile, female gamate non-motile

D. Both(1) and (3)

Answer: D

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13. Family tree based on evolutionary relationship is called

A. Karyogram

B. Dendrogram

C. Cladogram

D. Idiogram

Answer: C

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14. Glenoid cavity is

A. A depression which articulates with head of femur

B. A depression present in pelvic girdle

C. A depression present in femur

D. A depression of pectroal girdle which articulates with the head of humerus

Answer: D

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15. How many bones are present in human palm?

A. 8 Carpals + 5 Metacarpals

B. 5 Metacarpals + 14 Phalanges

C. 5 Metacarpals only

D. 8 Carpals + 5 Metacarpals + 14 Phalanges

Answer: C

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16. Each coxal bone of pelvic girdle is made up of upper , Inner b and below the pubis. At the point where these three bones meet is present which articulates with the thigh bone. An obturator foramen is present between ischium and e In the given paragraph, which of the two blanks can be correctly filled with the same word?

A. b&d

B. c & e

C. a & d

D. b&e

Answer: D

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17. Bones present in cranium are Linked to each other by

A. Amphiarthrose joints

B. Synarthrose joints

C. Synovial joints

D. Diarthrose joints

Answer: B

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18. Which of the following is a correct match between disease and its respective cause

A. Gout- Deposition of urea in synovial joints

B. Rheumatoid arthritis - Deficiency of dystrophin protein

C. Osteoporosis - Imbalance between calcitonin and parathyroid hormone levels

D. Rickets - Autoimmune disorder

Answer: C

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19. Resting membrane potential of a neuron is

A. -55 mV

B. -60 mV

C. 70 mV

D. 90mV

Answer: C

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20. Read the following statements, br Action potential propagates across the neuronal membrane br Repolarisation decreases the responsiveness of neuronal membrane to further stimulus br At resting stage, neuronal membrane is negatively charged on the inside and positively charged on the outside. br For every $2Na^+$ ions which are transported inside the cell, $Na^+ - K^+$ pump transports $3K^+$ ions to outside,Choose the option which includes correct statements only,

A. a&b

B. a & c

C. b&d

D. a & d

Answer: B

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21. Depolarisation of neuron is caused due to

A. Opening of K^+ leak channels

B. Opening of voltage gated K^+ channels

C. Opening of voltage gated Na^+ channels

D. Both (2) & (3)

Answer: C

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22. Read the following statements. Statement A: Action potential generation in neurons follow all or none principle. Statemont B: Higher than threshold stimulus causes larger

amount of voltage change in neuron's interior

Choose the correct option

A. Both statements A and B are correct

B. Statement A is correct and B is incorrect

C. Statement A is incorrect and B is correct

D. Both statements A and B are incorrect

Answer: B

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23. Find the incorrect match between various events during nerve impulse generation and their season

A. Depolarisation - Opening of voltage gated Na^+ channels

B. Repolarisation - Opening of voltage gated K^+ channels

C. Hyperpolarisation - Closure of voltage gated K^+ channels

D. Polarized state - Mainly K^+ leak channels and Na^+K^+ pump work

Answer: C

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24. Which of the following is an incorrect statement?

A. A threshold stimulus is required for the opening of voltage gated channels

B. As soon as threshold stimulus is applied, it causes depolarisation of the entire axonal membrane simultaneously

C. In myelinated nerve fibre, the nerve impulse does not travel as continuous wave of depolarisation due to presence of myelin sheath

D. Initially, polarity of neural membrane is reversed only at the site where threshold stimulus is applied

Answer: B

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25. Nerve impulse travels only in one direction due to

A. Presence of $N\frac{a^+}{K^+}$ pump

B. Presence of myelin sheath

C. Change in polarity of membrane occuring only in one direction, away

from the site of stimulus

D. Change in polarity of membrane occurring only from axon terminals towards axon Hillock

Answer: C

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26. Which of the following changes occur in axon membranes during repolarisation?

A. Decrease in permeability of K^+ leak channels

B. Opening of Na^+ voltage gated channels

C. Inhibition of $N\frac{a^+}{K^+}$ pump

D. Opening of voltage gated K^+ channels

Answer: D

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27. Unmyelinated and myelinated neurons in PNS can be easily differentiated as unmyelinated neurons

A. Lack both Schwann cells and myelin sheath

B. Lack only myelin sheath

C. Lack only Schwann cells

D. Lack neurilemma and Nissl's granules

Answer: B

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28. Read the following statements, br (a)Unipolar neurons are found in retina of eye and olfactory epithelium, br (b) Except microglial cells, all cells of nervous tissue develop from ectoderm, br (c) Astrocytes and neurolemmocytes perform functions like phagocytosis and providing nutrition to the neurons respectively, br (d) Unmyelinated neurons are commonly found in autonomous

neural system, br Choose the option which includes correct statements only,

A. (b) & (d)

B. (a), (b) & (d)

C. (b),(C) & (d)

D. (a) & (c)

Answer: A

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29. Which of the following is not true w.r.t electrical synapse?

A. Transmission of impulse across an electrical synapse is faster as compared to chemical synapse

B. Electrical synapse is rare in human nervous system

C. Two neurons having electrical synapse communicate via tight junctions

D. Synaptic deft is greatly reduced in electrical synapse

Answer: C

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30. Exocytosis of synaptic vesicles containing neutransmitters at synaptic cleft occurs due to

A. Influx of Ca^{2+} ions into dendrites

B. Efflux of $Ca^{2}+$ ions from axon terminals

C. Influx of ˆ $2+$ Ca ions into the synaptic knobs

D. Efflux of $Ca^{2}+$ ions from dendrites

Answer: C

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31. At neuromuscular junction, a released by b binds to its receptors present on c thus generating action potential in latter.Choose the option which gives the correct answer for the blanks in the statement given above.

A. a - Glycine, c- dendrites

B. b-Axon terminals, c- Sarcolemma

C. a- Acetylcholine, b- Myocytes

D. b - Myocytes, a - Axon terminals

Answer: B

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32. Read the following statements, Statement A: Somatic neural system (SNS) and Autonomic nervous system (ANS) are parts of PNS. Statement B: SNS controls the actions of skeletal. Choose the correct option. muscles while ANS controls the activity of involuntary organs smooth muscles and glands of body

A. Both statements are correct

B. Only statement A is correct

C. Only statement B is correct

D. Both statements are incorrect

Answer: A

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