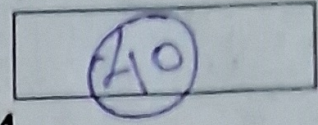


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Register No:



SECOND MID TERM TEST – 2024

TIME: 1.30 hrs

BIOLOGY

Marks: 50

BIO – BOTONY (Marks: 25)

PART - A

5 x 1 = 5

I. Choose the Correct answers:

- Bicollateral vascular bundles are present in
a) cucurbitacea b) Lilliacal c) Dracena d) Yucca
- What is the fate of primary xylem in a dicot stem showing extensive secondary growth?
a) It is retained in the centre of the axis
b) It gets crushed
c) May or many got get crushed
d) It gets surrounded by primary xylem
- what type of transpiration is possible in the xerophyte opuntia?
a) stomatal b) lerticular c) cuticular d) all the above
- which one is non-porous
a) soft wood b) hard wood c) spring wood d) autumn wood
- The element which is not remobilized?
a) phosphorous b) potassium c) Calcium d) Nitrogen.

Part - B

II. Answer any three of the questions:

3 x 2 = 6

- what is eustele.
- In forest, if the bark of a tree is damaged by the horn of a deer, How will the plant overcome the damage?
- Define tyloses.
- List out the non-photosynthetic parts of a plant that heed a supply of sucrose?
- Draw the diagram of bicollateral vasular bundle.

Part – C

3 x 3 = 9

III. Answer any three of question: 14th question is compulsory:

- Draw and label the parts of different types of meristems on the basics of Position in plant body.
- Differentiate Soft wood with hard wood.
- Define Imbibition and write the significance of the imbibition.
- The nitrogen is present in the atmosphere in huge amount but higher plants do not utilise it why?

Part - D

IV. Answer any one of the question:

1 x 5 = 5

- Differentiate the anatomical characters of dicot stem with monocot stem.
- Mention the types of transpiration and explain Their types?

BIO - ZOOLOGY (Marks: 25)**PART-I****I. Answer all the questions.****5 x 1 = 5**

1. ATPase enzyme needed for muscle contraction is located in
a) actinin b) troponin c) myosin d) actin
2. The synovial fluid is seen in joints.
a) Cartilagenous joints b) Diarthroses joints
c) fibrous Joints d) all the above.
3. Which part of the human brain is concerned with the regulation of body temperature?
a) Cerebellum b) Cerebrum c) medulla oblongata d) Hypothalamus
4. Myelin sheath is made up of which cells?
a) Schwann cells b) Neuroglia Cells c) Nephron d) Epithelial cells
5. Iodised salt is essential to Prevent
a) Rickets b) Scurvy c) goitre d) acromegaly

PART-II**II. Answer any three of the following.****3 x 2 = 6**

6. How is tetany caused?
7. Mention the types of muscles.
8. What is blind spot? why is called so?
9. What is reflex action?
10. Hormones are Chemical messengers why?

PART-III**III. Answer three of the following.****3 x 3 = 9****Question. No. 15 is compulsory**

11. What are the different types of rib bones that form the rib cage?
12. List the disorders of the muscular system.
13. Why the limbic system is called the emotional brain? Name the parts of it.
14. Differentiate Hyperglycemia and Hypoglycemia.
15. Mention three functions of adrenalin.

PART-IV**Answer the following.****1 x 5 = 5**

16. Write the Schematic representation of muscle contraction.

(OR)

Differentiate between rods and cones.