

## SECOND MID TERM TEST - 2023

Standard - XI  
BIOLOGY

Reg No. 

Marks: 50

Time: 1.30 hrs.

BIO - BOTANY

Marks: 25

### PART - A

**I. Choose the correct answer:**

5×1=5

1. Vascular bundles are skull shaped in \_\_\_\_\_  
a) Dicot stem                      b) Dicot root                      c) Monocot stem                      d) Monocot root
2. Usually the monocotyledons do not increase their girth, because  
a) They possess actively dividing Cambium  
b) They do not possess actively dividing Cambium.  
c) Ceases activity of cambium                      d) All are correct
3. Identify the correctly matched pair:  
a) Aerobic                      -                      Beijerinckia  
b) Anaerobic                      -                      Azotobacter  
c) Photosynthetic                      -                      Disulfovibrio  
d) Chemosynthetic                      -                      Chlorobium
4. In a fully turgid cell  
a) DPD = 10 atm; OP = 5 atm; TP = 10 atm  
b) DPD = 0 atm; OP = 10 atm; TP = 10 atm  
c) DPD = 0 atm; OP = 5 atm; TP = 10 atm  
d) DPD = 20 atm; OP = 20 atm; TP = 10 atm.
5. The transpiration is a "Necessary evil" as stated by \_\_\_\_\_.  
a) Fenson                      b) Levitt                      c) Curtis                      d) Munch

### PART - B

**II. Answer any three questions:**

3×2=6

6. Define Meristem.
7. Write the differences between Spring wood and Autumn Wood.
8. What are the Parameters which control water potential?
9. The nitrogen is present in the atmosphere in huge amount but higher plants fail to utilize it. why?
10. Define transpiration? and write their types?

### PART - C

**III. Answer any three questions. Q.No.13 is Compulsory.**

3×3=9

11. Distinguish the anatomy of dicot stem from monocot stem.
12. What are called tyloses?
13. Write the significance of diffusion in plants.
14. Draw a neat labelled diagram of stomata.
15. Give short note on Nepenthes.

### PART - D

**IV. Answer in Detail.**

1×5=5

16. What are growth rings? and write its significance?

(OR)

Explain - Munch Mass flow hypothesis.

2

XI - BIOLOGY

BIO - ZOOLOGY

Marks: 25

PART - A

I. Choose the correct answer :

5×1=5

1. The pigment present in the Muscle fibre to store oxygen is  
a) Myoglobin      b) troponin      c) Myosin      d) Actin
2. Acetabulum is located in  
a) Collar bone      b) Hip bone      c) Shoulder bone      d) thigh bone
3. Which structure in the ear converts pressure waves to action potentials?  
a) Tympanic membrane      b) Organ of Corti  
c) Oval window      d) Semicircular canals
4. In adult, the total cerebro spinal fluid volume (CSF) is about  
a) 150 ml      b) 350 ml      c) 500 ml      d) 250 ml
5. Serum calcium level is regulated by  
a) Thyroxine      b) FSH      c) Pancreas      d) Thyroid and Parathyroid

PART - B

II. Answer any three of the following:

3×2=6

6. How is Jetany caused?
7. How does an Isotonic contraction take place?
8. Why is the blind spot called so?
9. The limbic system is called 'emotional brain' why?
10. What is hypoglycemia?

PART - C

III. Answer any three of the following (Q.no. 13 is compulsory)

3×3=9

11. What is Carpal Tunnel Syndrome (C7s)?
12. What happens if intra Ocular Pressure increases?
13. Differentiate Rod cells and Cone cells.
14. Specify the symptoms of Aeromegaly.
15. Predict the effects of removal of Pancreas from human body.

PART - D

IV. Answer the following Question In detail:

1×5=5

16. Write the schematic presentation of Muscle contraction.

(OR)

Explain the Various refractive errors of eye.

★★★ / ★★★