

TTK

**SECOND MID TERM EXAMINATION - 2024****11** - Std**BIOLOGY**

Marks : 35

Time : 1.30 Hrs

**BIO - BOTANY**

Marks : 18

**I Choose the correct answer :****1 x 3 = 3**

- Bicollateral Vascular bundle are present in.  
a) Cucurbitaceae. b).Liliaceae. c).Dracena. d). Yucca
- 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
- Stomata of a Plant open due to  
a) Influx of a Potassium ions.  
b) Efflux of Pottassium ions c) Influx of Chloride ions d) Influx of Hydroxyl ions

**II Answer Any Two Questions :****2 x 2 = 4**

- What are Casparian strips?
- Write short notes on Tyloses.
- If the concentration of salt in the soil is too high and the plants may wilt even if the field is thoroughly irrigated. Explain.
- Draw the Structure of Stomata and label its parts.

**III Answer Any Two Questions :****2 x 3 = 6**

- What are Meristematic Tissues?. Mention different types of meristems on the basis of position in plant body.
- Write any three differences of Sap wood and Heart wood.
- What are the types of transpiration?
- Explain Ascent of Sap.

**IV Answer Any One Question :****1 x 5 = 5**

- Distinguish the anatomy of dicot root from monocot root.
- Explain Endosmosis by Potato Osmoscope Experiment.

**PART-II-BIO ZOOLOGY****MARKS:17****Choose the correct answer.****4 X 1 = 4**

- Skeletal muscles are attached to bones by  
a)Tendons b)Ligament c)Pectin d) Fibrin
- Match the following and Find out the correct option.

**Joints****Location**

- |                         |   |   |
|-------------------------|---|---|
| A) Fibrous joints       | - | i) Knee joint                                 |
| B) Cartilaginous joints | - | ii) Between the Carpels                       |
| C) Hinge joint          | - | iii) Skull bones                              |
| D) Gliding joint        | - | iv)Adjacent vertebrae of the Vertebral column |

a) A- iv B- iii C- ii D- i      b) A- ii B- iii C- iv D- i

c) A- iii B- ii C- iv D- i      d) A- iii B- iv C- i D- ii

- Which part of the human brain is concerned with the regulation of bodytemperature?  
a) Cerebellum b) Cerebrum c) Hypothalamus d) Medulla oblongata
- When the potential across the axonmembrane is more negative than thenormal resting potential, the neuron issaid to be in a state of  
a) Depolarization b) Repolarization c) Hyperpolarization d) Hypopolarization

**Answer any One of the following.****2 X 1 = 2**

- How is Gout caused?
- Cornea transplant in humans is almostnever rejected. State the reason.

**Answer any Two of the following. (Question No. 9 is compulsory).****3 X 2 = 6**

- What are the different types of rib bones that form the rib cage?
- Mentionany three functions of CerebroSpinal Fluid.
- Draw a neat labelled diagram of Neuron.

**Answer any Onein Detail.****1 X 5 = 5**

- List out the functions of Skeletal system. **(OR)** Explain the Refractive Errors of the Eye.