

## SECOND MID TERM TEST - 2024

### Standard - XI

**Time : 1.30 hrs**

**BIOLOGY**

**Marks: 50**

**Bio-Botany**

**Marks: 25**

**Part - A**

**I. Choose and write the correct answer with option code:-**

**5×1=5**

- 1) Bicollateral vascular bundle are present in \_\_\_\_\_  
 a) Cucurbitaceae    b) Liliaceae    c) Dracena    d) All of these
- 2) Stomata of a plant open due to  
 a) Influx of K<sup>+</sup>    b) Efflux of K<sup>+</sup>    c) Influx of Cl<sup>-</sup>    d) Influx of OH<sup>-</sup>
- 3) The element which is not remobilized?  
 a) Phosphorous    b) Potassium    c) Calcium    d) Nitrogen
- 4) 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 may not get crushed    d) It gets surrounded by primary phloem
- 5) Identify correct match
 

1) Die back disease of citrus	(i) Mo
2) Whiptail disease	(ii) Zn
3) Brown heart of turnip	(iii) Cu
4) Little Leaf	iv) B
a) 1(iii), 2(ii), 3(iv), 4(i)	b) 1(iii), 2(i), 3(iv), 4(ii)
c) 1(i), 2(iii), 3(ii), 4(iv)	d) 1(iii), 2(iv), 3(ii), 4(i)

**Part - B**

**II. Answer any three questions:-**

**3×2=6**

- 6) Plant (A) in a Nutrient medium shows whiptail disease plant (B) in a nutrient medium shows a little leaf disease. Identify mineral deficiency of plant (A) and (B)?
- 7) What is water potential?
- 8) In a forest if the bark of a tree is damaged by the horn of a deer, How will the plant overcome the damage.
- 9) What is passage cells?
- 10) Differentiate tracheids and fibres.

**Part - C**

**III. Answer any three questions:- (Q.No. 15 is compulsory)**

**3×3=9**

- 11) The nitrogen is present in the atmosphere in huge amount but higher plants fail to utilize it. Why?
- 12) What are the parameters which control water potential?
- 13) Write the differences between Sap wood and Heart wood.
- 14) Write the characteristics features of meristematic tissues?
- 15) List out the functions epidermal tissue system.

**Part - D**

**IV. Answer the following:-**

- 16) a) Explain the experiment in the potato osmoscope.  
 b) Draw and label the anatomy of dicot leaf.

**1×5=5**

**(OR)**

(2)  
**Bio-Zoology**  
**Part - A**

**XI BIOLOGY**  
**Marks: 25**

**I. Choose the correct answer:-**

**5×1=5**

- 1) Muscles are derived from  
 a) ectoderm      b) mesoderm      c) endoderm      d) neuro ectoderm
- 2) Which gland is known as master endocrine gland?  
 a) Pituitary gland    b) thymus    c) Thyroid gland    d) Adrenal gland
- 3) The respiratory centre is present in the  
 a) medulla oblongata      b) Hypothalamus  
 c) Cerebellum      d) Thalamus
- 4) Each skeletal muscle is covered by  
 a) Epimysium      b) Perimysium      c) endomysium    d) hypomysium
- 5) Which of the following gland is related with immunity?  
 a) Pineal gland      b) adrenal gland      c) thymus      d) Parathyroid gland

**Part - B**

**II. Answer any three of the following questions:-**

**3×2=6**

- 6) How is tetany caused?
- 7) Name the bones of the skull?
- 8) Cornea transplant in human is almost never rejected, state the reason.
- 9) Specify the symptoms of Acromegaly?
- 10) Old age people are sick often why?

**Part - C**

**III. Answer any three of the following (Q.No.15 is compulsory) 3×3=9**

- 11) What are the different types of rib bones that form the rib cage?
- 12) Differentiate between rod and cone cells.
- 13) Why the limbic system is called the emotional brain? Name the parts of it?
- 14) Draw and labelled diagram of a typical long bone.
- 15) What is carpal tunnel syndrome. (CTS)?

**Part - D**

**IV. Answer the following questions:**

**1×5=5**

- 16) a) What are the benefits of regular exercise?

**(OR)**

- b) Describe the structure of the Neuron.

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Ranipet - DIST

*[Signature]*