

TVL11Bio

Tirunelveli District
Common Half Yearly Examination - 2024

Time: 3.00 Hours

Standard 11
BIOLOGY
PART - I (BIO-BOTANY)

Marks: 70

Marks: 35

Section - A

I. Choose the best answer from the following.

8×1=8

- 1) Vexillary aestivation is characteristic of the family
a) fabaceae b) Asteraceae c) Solonaceae d) Brassicaceae
- 2) Perianth is present in
a) Clitoria ternata b) Datura Metal
c) Allium Cepa d) Pongamia pinnata
- 3) The net charge of Zwitter ion is
a) Zero b) Positive c) Negative d) 100
- 4) Bicollateral vascular bundles are present in
a) Cucurtritaceae b) Lilliaceae c) Dracena d) Yucca
- 5) Tetrach xylem, is present in
a) Dicot root b) Monocot stem c) Monocot root d) dicot stem
- 6) What type of transpiration is possible in the xerophyte opantia?
a) Stomatal b) Lenticular c) Cuticular d) All the above
- 7) Watson and crick model of DNA double helix is form
a) A b) C c) H d) B
- 8) The element which is not remobilized
a) phosphorous b) potassium c) calcium d) Nitrogen

Section - B

II. Answer any four questions.

4×2=8

- 9) Living and nonliving characters of viruses (any two)
- 10) Do you agree with statement Bryophytes need water for fertilization? Justify your answer
- 11) Define species
- 12) Name the types of RNA.
- 13) What are stellate parenchyma
- 14) What is plectostele

Section - C

III. Answer any three questions. Q.No. 17 is compulsory.

3×3=9

- 15) Give the technical terms for the following
A sterile stamen, united stameus in one bundle, stameus attached to petals
- 16) Write the significance of mitosis.
- 17) What are the parameters which control water potential
- 18) Draw the structure of open vascular bundle
- 19) Name the tyeps of Transpiration.

Section - D

IV. Answer all questions.

2×5=10

- 20) a) What are micorhiza? Write the importance of it.
(OR)
- b) Write the botanical description of Datura metal
- 21) a) Differentiate Plant cell from Animal Cell
(OR)
- b) Explain the structure of DNA.

PART - II (BIO-ZOOLOGY)

Marks: 35

Section - A**8×1=8****Choose the best answer from the following.**

- 1) Molecular taxonomic tool consists of
 - a) DNA and RNA
 - b) Mitochondria and Endoplasmic reticulum
 - c) Cell wall and membrane proteins
 - d) All the above
- 2) The main function of the cuboidal epithelium is
 - a) Protection
 - b) Secretion
 - c) Absorption
 - d) Both (b) and (c)
- 3) Choose the wrong statement among the following
 - a) In Earthworm a single male genital pore is present
 - b) Setae help in locomotion of Earthworms
 - c) Muscular layer in the body wall of Earthworm is made up of only circular muscles
 - d) Typhlosole is part of the intestine of Earthworm
- 4) The Sphincter of Oddi guards
 - a) Hepatopancreatic duct
 - b) Gastrin and Insulin
 - c) Cholecystokinin and Secretion
 - d) Insulin and Glucagon
- 5) Total Lung capacity (TLC)
 - a) TV + IRV
 - b) VC + RV
 - c) ERV + TV + IRV
 - d) TV + ERV
- 6) Podocytes are the cells present on the
 - a) Outer wall of Bowman's capsule
 - b) Inner wall of Bowman's capsule
 - c) Neck of Nephron
 - d) Wall glomerular capillaries
- 7) The Total Number of skull bone is
 - a) 22
 - b) 14
 - c) 8
 - d) 24
- 8) A short lived endocrine gland is
 - a) Thyroid gland
 - b) Thymus gland
 - c) Adrenal gland
 - d) Pituitary gland

Section - B**Answer any four questions.****4×2=8**

- 9) What are the four characteristics common to most animals?
- 10) Give a short account on Tuberculosis (T.B)
- 11) Distinguish between open and closed circulation
- 12) What are Aquaporins?
- 13) When is the blindspot called so?
- 14) Define Cross breeding?

Section - C**Answer any three questions.****3×3=9**

- 15) Differentiate white adipose tissue from brown adipose tissue
- 16) Comment on the functions of alary muscles
- 17) What is deadspace?
- 18) Draw and label the parts of Neuron?
- 19) What are the advantages of Artificial insemination?

Section - D**Answer all the questions.****2×5=10**

- 20) Explain how does digestion take place in deodenum of small Intestine

(OR)

Describe the structure of Human kidney

- 21) What are the benefits of Regular exercise

(OR)

Explain the Hormonal activities of Neurohypophysis.
