

TVL11Bio

Tenkasi District

Common Half Yearly Examination - December 2025



223-12-2025

Standard 11

Time Allowed: 3.00 Hours

BIOLOGY

Maximum Marks: 70

BIO-BOTANY**Marks: 35****8×1=8****I. Choose the best answer:**

- 1) Identity the Archaeobacterium _____.
 - a) Acetobacter
 - b) Erwinia
 - c) Treponema
 - d) Methanobacterium
- 2) In Gymnosperm Endosperm is formed _____.
 - a) At the time of fertilization
 - b) Before fertilization
 - c) After fertilization
 - d) Along with the development of embryo
- 3) **Select the mismatch pair:**
 - a) Musa - Unicostate
 - b) Lablab - Trifoliolate
 - c) Acalypha - Leaf mosaic
 - d) Allamanda - Ternate phyllotaxy
- 4) Aggregate fruit develops from _____.
 - a) Multicarpellary, Apocarpous ovary
 - b) Multicarpellary, Syncarpous ovary
 - c) Multicarpellary ovary
 - d) Whole inflorescence
- 5) Perianth is present in _____.
 - a) Clitoria ternatea
 - b) Datura metal
 - c) Allium cepa
 - d) Pongamia Pinnata
- 6) Sequences of which of the following is used to know the phylogeny _____.
 - a) mRNA
 - b) rRNA
 - c) tRNA
 - d) Hn RNA
- 7) The correct sequence in cell cycle is _____.
 - a) S-M-G1-G2
 - b) S-G1-G2-M
 - c) G1-S-G2-M
 - d) M-G-G2-S
- 8) Bicollateral vascular bundles are present in _____.
 - a) Cucurbitaceae
 - b) Lilliacae
 - c) Dracena
 - d) Yucca

II. Answer any four questions:**4×2=8**

- 9) Write the distinguishing features of Monera.
- 10) Differentiate haplontic, diplontic life cycle.
- 11) Write down the different types of placentation.
- 12) Write down the significance of mitosis.
- 13) Define enzyme.
- 14) Name the different types sclereids.

III. Answer any three questions: [Q.No. 19 is compulsory]**3×3=9**

- 15) Differentiate Sapwood and Heartwood.
- 16) What are the parameters which control water potential?
- 17) Name the unclassified minerals.
- 18) Note on photosystem - I.
- 19) Differentiate the plant cell and animal cell.

IV. Answer all questions:**2×5=10**

- 20) Give a general account of Lichens.

(OR)

Economic importance of solanaceae.

- 21) Differentiate the Dicot stem and Monocot stem.

(OR)

Explain Thirstle funnel experiment.

TVL11Bio

2

BIO-ZOOLOGY

Marks: 35

I. Choose the best answer:

- 1) Every unit of classification regardless of its rank is 2008 51 8x1=8
 a) Species b) Taxon c) Genus d) Variety
- 2) Which of the following is a crustacean?
 a) Prawn b) Snail c) Sea anemone d) Hydra
- 3) Which of the following have an open circulatory system?
 a) Frog b) Earthworm c) Pigeon d) Cockroach
- 4) Which one is incorrectly matched?
 a) Pepsin - Stomach
 b) Renin - Liver
 c) Trypsin - Intestine
 d) Ptyalin - Mouth
- 5) Which of the following is not involved in blood clotting?
 a) Fibrin b) Calcium c) Platelets d) Bilirubin
- 6) The protein present in the thick filament is _____.
 a) Myosin b) Actin c) Pectin d) Leucin
- 7) Hyper secretion of GH in children leads to _____.
 a) Cretinism b) Gigantism c) Grave disease d) Tetany

8) Choose the correctly matched pair:

- a) Egg layers - Brahma
 b) Broiler types - Leghorn
 c) Dual purpose - White polymouth rock
 d) Ornamental breeds - Silkie

II. Answer any four questions:

4x2=8

- 9) Write the advantages of vermicomposting.
 10) Commont on Homeostasis?
 11) Differentiate proto nephridia from metanephridia.
 12) Name the respiratory organs of Flatworm, Earthworm Fish and Prawn.
 13) Why do you call cockroach a pest?
 14) What are flame cells?

III. Answer any three questions: [Q.No. 19 is compulsory]

3x3=9

- 15) List the functions of Air bladder in fishes.
 16) Why are villi present in the intestine and not in the stomach?
 17) Why is pneumonia considered a dangerous disease?
 18) Name the bones of the skull.
 19) Mention the advantages of MOET.

IV. Answer all questions:

2x5=10

- 20) Explain the Life cycle of bombyx mori.

(OR)

Functions of Thyroid hormones.

- 21) Mechanism of Digestion in small intestine.

(OR)

General character of mammals.
