

VNR11Bio

Virudhunagar District

Common Half Yearly Examination - December 2024



Standard 11

BIOLOGY

Maximum Marks: 70

Time Allowed: 3.00 Hours

Note: Candidate should answer PART I (Bio-Botany) and PART II (Bio-Zoology) in separate answer sheets.

PART - I [BIO-BOTANY]

Marks: 35

Section - I

8×1=8

Note: i) Answer all the questions.

ii) Choose the correct answer and write the option code with the corresponding answer.

- 1) The compound which links Glycolysis and Krebs cycle is
a) Acetyl CoA b) Succinic acid c) Citric acid d) Pyruvic acid
- 2) Which of the plant group has gametophyte as a dominant phase?
a) Angiosperm b) Pteridophyte c) Bryophyte d) Gymnosperm
- 3) The plant which is used in leprosy and leucoderma
a) Psoralea corylifolia b) Indigofera tinctoria
c) Butea monosperma d) Clitoria ternatea
- 4) Who proposed protoplasm as a physical basic of life?
a) Corti b) Purkinje c) Hugo Van Mohl d) Huxley
- 5) The element which is not remobilized
a) Phosphorous b) Potassium c) Calcium d) Nitrogen
- 6) The net charge of Zwitter ion is
a) zero b) positive c) negative d) 100
- 7) Grafting is successful in dicots but not in monocots because the dicots have
a) Vascular bundles arranged in a ring
b) Cambium for secondary growth
c) Vessels with elements arranged end to end
d) Cork cambium
- 8) Axillary bud modified into thorns
a) Bambusa b) Citrus c) Chrysanthemum d) Oxalis

Section - II

Note: Answer any four of the following.

4×2=8

- 9) What is plectostele? Give an example.
- 10) Draw the diagram of stamen and label its parts.
- 11) Define cell cycle.
- 12) What is action spectrum?
- 13) Differentiate wood formed in Pinus from that of Morus.
- 14) What is known as Richmond Long effect?

Section - III

Note: Answer any three questions. Question No. 19 is compulsory.

3×3=9

- 15) Give an account of Go phase.
- 16) Write down the significance of imbibition.
- 17) What are Brachysclerids? Give an example.
- 18) What are Magnetosomes?
- 19) Differentiate Taxonomy and Systematics.

Section - IV

Note: Answer all the questions.

2×5=10

- 20) Write the differences between sap wood and heart wood.

(OR)

Explain insectivorous mode of nutrition in angiosperm.

- 21) Distinguish between Prokaryotes and Eukaryotes.

(OR)

Give the floral characters of clitoria ternatea.

