

COMMON HALF YEARLY EXAMINATION- 2025

Standard - XI

BIOLOGY

Time : 3.00 hrs

Marks: 70

Marks: 35

Part - I Bio-Botany

Section - A

8×1=8

I. Answer all the questions.

Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

- 1) Which are considered as "Biological puzzle"
a) Virus b) Bacteria c) Fungi d) Algae
- 2) Which of following represents gametophytic generation in pteridophytes?
a) Prothallus b) Thallus c) Cone d) Rhizophore
- 3) The fruit is a fertilized and ripened _____
a) Ovule b) Ovary c) Anther d) Pollengrain
- 4) Which of the following is a flowering plant with nodules containing filamentous nitrogen fixing micro organisms.
a) Crotalaria juncea b) Cycas revoluta
c) Cicer arietinum d) Casuarina equisetifolia
- 5) A quantasome is present in _____
a) Golgi bodies b) Ribosomes c) Mitochondria d) Chloroplast
- 6) If mitotic division is restricted in G₁ phase of the cell cycle than the condition is known as
a) S phase b) G₂ phase c) M phase d) G₀ phase
- 7) The compound which links glycolysis and Krebs cycle is
a) Succinic acid b) Pyruvic acid c) acetyl CoA d) Citric acid
- 8) _____ is the powerful growth inhibitor
a) Ethanol b) Cytokinins c) ABA d) Auxin

Section - B

4×2=8

II. Answer any four questions:-

- 9) What is apical dominance?
- 10) Write the overall equation of photosynthesis
- 11) What is wood botanically?
- 12) Draw and label the parts of Bicollateral Vascular bundle.
- 13) Why do farmers plant leguminous crops in crop rotation/mixed cropping?
- 14) Write the functions of enzymes.

Section - C

3×3=9

III. Answer any Three questions. Q.No.19 is compulsory:

- 15) Give a general account on lichens
- 16) Differentiate haplontic and diplontic life cycle.
- 17) Write short notes about Hydroponics.
- 18) Give a brief account on Programmed Cell Death (PCD)
- 19) Draw and label the parts of Plant cell.

Section - D

IV. Answer all questions:-

2×5=10

- 20) a) Write the botanical description of Allium Cepa. [or]
b) How will you measure growth of the plant.
- 21) a) Distinguish the anatomy of monocot stem from Dicot stem. [or]
b) Explain Glycolysis (or) EMP pathway.

