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Subject: Botany

Class: XI

Time: 1½ Hours

Max Marks: 35

GENERAL INSTRUCTIONS:

This question paper contains four sections:

- i. Section –A contains 5 Very Very Short Answer Type Questions of 1 mark each. $1 \times 5 = 5$ marks
- ii. Section- B contains 5 Very Short Answer Type Questions of 2 marks each to be answered in 20 to 30 words. $2 \times 5 = 10$ marks
- iii. Section – C contains 5 Short Answer Type Questions of 3 marks each to be answered in 100 to 150 words. $3 \times 5 = 15$ marks
- iv. Section - D contains 1 Long Answer Type Questions of 5 marks each to be answered in 150 to 200 words. $5 \times 1 = 5$ marks

Section A

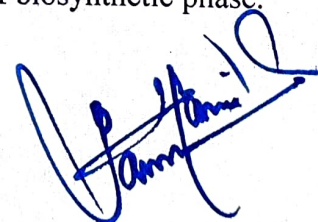
1. Closed vascular bundles lack:
 - a) Ground tissue
 - b) Pith
 - c) Conjunctive parenchyma
 - d) Cambium

2. Casparian strips occur in:
 - a) Cortex
 - b) Endodermis
 - b) Epidermis
 - d) Pericycle

3. Smallest gymnosperm is:
 - a) Zmiapygmaea
 - b) Ginko
 - c) Gnetales
 - d) Cycad

4. _____ are called fungi imperfecti.
 - a) Deutermocyetes
 - b) Ascomycetes
 - c) Zygomycetes
 - d) Phycomycetes

5. Dark reaction depends upon:
 - a) presence of light
 - b) presence of darkness
 - c) Products of light reactions
 - d) Products of biosynthetic phase.



Section B

- Q6. What is Herbarium? Write its advantages in view of taxonomical aids.
- Q7. Differentiate between prokaryotes and eukaryotes.
- Q8. Why lichens are considered to be mutualism association?
- Q9. Write the floral formula of Brassica with suitable example.
- Q10. What is phyllotaxy?

Section C

- Q11. Define Binomial system of nomenclature. Give the rules to be observed in this system.
- Q12. Why xylem and phloem are called complex tissues?
- Q13. Differentiate between aerobic and anaerobic respiration.
- Q14. Write important characteristic features of pteridophytes.
- Q15. Write a brief account on effect of Auxin on plants.

Section D

- Q16. Define photophosphorylations. Explain non cyclic photophosphorylation.

OR

What is Krebs's cycle? Explain the cycle in detail.

