b) Malvaceae

d) Poaceae

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4. Interpetiolar stipules are present in

a) Rubiaceae

c) Solanaceae

PART-B

(Short essay questions)

Answer any eight.

 $(8 \times 2 = 16)$ 

- 5. Write a brief account on phyllotaxy.
- 6. What are meristems? Mention their features.
- 7. Distinguish between heartwood and sapwood.
- 8. Describe the inflorescence in Euphorbia.
- 9. Write the economic importance of Solanaceae.
- 10. Comment on aggregate fruits.
- 11. What is aestivation? Mention its types.
- 12. Describe Histogen theory.
- 13. What is a complex tissue? Mention its types.
- 14. Explain labellum. Give example.
- 15. Mention the salient features of Annonaceae.
- 16. Give an account on ergastic substances.

PART - C

(Essay questions)

Answer any four.

 $(4 \times 3 = 12)$ 

- 17. Write a brief account on Cymose inflorescence.
- 18. Give an account on different types of vascular bundles.

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- 19. Compare the anatomical features of dicot and monocot leaves.
- 20. What are botanical gardens? Mention their role.
- 21. List out a few important Indian herbaria.
- 22. Give the salient features of Malvaceae.

PART - D

(Long essay questions)

Answer any one.

 $(1 \times 8 = 8)$ 

- 23. Describe the stelar and extrastelar secondary thickening in dicot stem. Draw labelled diagrams.
- 24. Give an account on the vegetative and floral characters of Asteraceae. Add a note on its salient features and economic importance.
- 25. Describe the anomalous secondary thickening in Boerhaavia.