Second Year B.Sc., Degree Examination August / September 2009 Directorate of Correspondence Course (Fresher)

Botany

Paper - II : Gymnosperms, Paleobotany, Anatomy, Embryology & Ecology

85

Note: 1. Answer all questions

2. Draw diagrams wherever necessary

I. Simple answer questions :

Answer in a word, phrase or a sentence.

10x1=10

- 1. What is an apophysis?
- 2. Explain the function of Aerenchyma tissue.
- 3. What is endothecium?
- 4. Give an example for floating hydrophyte.
- 5. What is an 'impression fossil'?
- Define cupule.
- 7. Define xerosere.
- 8. What is a rhomboid scale?
- What is an egg apparatus?
- 10. What is proembryo?

II. Short answer questions.

Answer any FIVE of the following.

5x3=15

- Explain commensalism.
- 12. Write the characters of an entomophilous flower.
- Explain Histogen theory.
- 14. Write notes on fossilization.
- 15. Draw a labelled diagram of T.S. of coralloid root of cycas.
- Write notes on roots of Epiphytes.
- Explain with neat labelled diagram the ovule of Gnetum.

III. Medium answer questions.

5x6=30

Answer any FIVE of the following

- 18. Write notes on the development of male gametophyte.
- 19. Explain the internal structure of a Dicot leaf.
- 20. Write notes on types of pollination.
- 21. Briefly explain any three types of soil erosion.
- 22. Describe the cones of Pinus.
- Write notes on classification of meristem based on position.

IV. Lon g answer questions.

Answer any THREE of the following:

10x3=30

- 24. Explain anomalous secondary growth in Dracena stem.
- 25. Differentiate monocot and dicot root anatomy.
- 26. Write notes on types of polyembryony and its significance.
- 27. Describe the sexual reproduction in Cycas with diagrams.
- 28. List out the edaphic factors which influence the life of an organism.

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