

NOVEMBER 2014

**55602/MCH1B**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer any TEN questions.

Each answer should not exceed 50 words.

Write short notes on :

1. Creeping Pine.
2. Apogamy
3. Solenostele
4. Stomium
5. Archosporium
6. Polar nuclei
7. Male flower of *Gnetum*
8. Pollen chamber
9. Telome theory
10. Seed habit

11. Fossil
12. *Medullosa*.

PART B — ( $5 \times 5 = 25$  marks)

Answer any FIVE questions.

Each answer should not exceed 200 words.

13. Describe briefly on the prothallus of *Isoetes*.
14. Illustrate the structure of stele of *Pteris*.
15. Write an account on male gametophyte of *Auracauria*.
16. Describe the anatomical features of *Gnetum* stem.
17. Briefly the mention the habit and economic importance of *Ephedera*.
18. Describe the salient features of *Lagenostoma*.
19. Write about the Gondwana flora.

PART C — ( $4 \times 10 = 40$  marks)

Answer any FOUR questions.

Each answer should not exceed 500 words.

20. Give an account on sexual reproduction in *Osmunda*.
21. Bring out the sporangial evolution in Pteridophytes.

22. Write an essay on the general characters of Gymnosperms.
  23. Explain the range of female gametophytes in Gymnosperms.
  24. Describe the salient features of *Calamites*.
  25. Write a detailed account on *Cardiocrarpus*.
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