

3 MJ 60305

THREE YEAR B.Sc. (Honours) DEGREE EXAMINATION, NOVEMBER/DECEMBER 2024.

THIRD SEMESTER
VASCULAR PLANTS

Time : Three hours

Maximum : 70 marks

(No additional sheet will be supplied)

PART A — (5 × 4 = 20 marks)

Answer any FIVE of the following questions.

1. Heterospory
2. Coralloid roots of *Cycas*
3. Omega taxonomy
4. Head or Capitulum
5. Cytotaxonomy
6. Maleflower of *Gnetum*
7. Binomial system of nomenclature
8. Economic importance of Annonaceae
9. Betalins
10. *Cycas* Ovule

PART B — (5 × 10 = 50 marks)

Answer ALL of the following questions.

11. Write an essay on stelar evolution in pteridophytes.
Or
12. Describe the internal structure of Marselia rhizome.
13. Describe the internal structure of *Cycas* leaflet.
Or
14. Describe in detail the anatomical characters of young and old stems of *Gnetum*.
15. Give an account of Bentham and Hooker system of classification. Discuss its merits and demerits.
Or
16. Define herbarium. Describe the techniques of herbarium and add a note on digital herbaria.

17. Describe the vegetative and floral characters of the family Amaranthaceae.

Or

18. Enumerate the floral characters of Euphorbiaceae. Mention the botanical names of any five plants of economic importance and their uses.

19. Give an account of different steps involved in the construction of taxonomic groups.

Or

20. Write an essay on the origin and evolution of angiosperms.
