2023/TDC(CBCS)/ODD/SEM/ BOTHCC-501T/143

TDC (CBCS) Odd Semester Exam., 2023

BOTANY

(Honours)

(5th Semester)

Course No.: BOTHCC+501T

(Reproductive Biology of Angiosperms)

Full Marks : 50

Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A which a min ou

Answer ten questions, selecting any two from each
Unit: 2×10=20

UNIT—I

- Briefly mention the research contributions of Amier.
- 2. Write a brief account on the history and development of reproductive biology.
- 3. Give a short account of the contributions of Nawaschin.

UNIT-II

- 4. Write a short note on microgametogenesis.
- 5. What do you mean by polyads?
- 6. Write a brief note on the structure of MGU (Male Germ Unit).

UNIT-III

- 7. Write a brief note on obturator.
- 8. Give a short account of aril and caruncle.
- 9. Write a short note on Circinotropous ovule.

UNIT-IV

- 10. Briefly explain interspecific and intraspecific incompatibility.
- 11. Write a note on stub pollination.
- 12. Write briefly on bud pollination.

UNIT-V

- 13. Write a note on embryo-endosperm relationship.
- 14. Briefly explain the types of endosperm.
- 15. Write a brief note on polyembryony.

SECTION-B

Answer five questions, selecting one from each Unit: 6×5=30

UNIT-I

- 16. Give an illustrated account of the major contributions of Strasburger and Maheshwari in the field of reproductive biology of angiosperms.

 3+3=6
- 17. Give a detailed account of the scope of reproductive biology of angiosperms.

UNIT-II

- 18. Describe the flower as a modified determinate shoot with suitable diagrams.
- Describe the process of microsporogenesis with suitable diagrams.

UNIT-III

- 20. Describe the various contrivances for selfand cross-pollination in angiosperms with suitable examples.
- With suitable diagrams, describe in detail the polygonum type of embryo sac development.

UNIT-IV

- 22. What is in vitro pollination? Give a detailed account of parasexual hybridization. 2+4=6
- 23. Write a note on cybrids with necessary diagrams. Add a note on in vitro fertilization.

 4+2=6

UNIT-V

- 24. Describe the structure and functions of suspensor. Add a note on apomixis. 4+2=6
- 25. Describe the structure and development of dicot embryo. 6

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