

2021/TDC/CBCS/ODD/ BOTHCC-501T/143

TDC (CBCS) Odd Semester Exam., 2021 held in March, 2022

BOTANY

(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

Answer any ten questions:

 $2 \times 10 = 20$

- 1. Briefly mention the research contributions of Amici.
- 2. Write about contributions of Jensen.
- 3. Give a short account of contributions of Nawaschin.

(Turn Over)



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- 4. Write a note on microsporogenesis.
- 5. What do you mean by polyads?
- 6. Give a brief account of callose deposition and its functions, reference des 1
- 7. Write about obturator.
- Reproductive Biology of Anglangerms 8. Give a brief account of aril and caruncle.
- 9. Differentiate between self-pollination and cross-pollination.
- 10. Briefly explain interspecific and intraspecific incompatibility.
- 11. Write a note on stub pollination.
- Answer saw rea questions 12. Give a brief account of bud pollination.
- mension the research contributions 13. Write a note on embryo-endosperm relationship.
- Three obest contributions of Sesson 14. Briefly explain the types of endosperm.
- Gran & short acrount of constitueous ci 15. Write about development of monocot embryo.

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SECTION—B

Answer any five questions: 6×5=30

- illustrated account of 16. Give an major contributions of Strasburger and Maheshwari in the field of reproductive 3+3=6 biology of angiosperms.
- 17. Give a detailed account of scope reproductive biology of angiosperms.
- 18. Describe flower as a modified determinate shoot in detail.
- 19. Give a detailed account of male germ unit (MGU). Draw various steps of microgametogenesis.
- 20. Describe various contrivances for self- and with angiosperms cross-pollination in suitable examples.
- 21. Give an account of organization and ultrastructure of mature embryo sac. Add a note on double fertilization in angiosperms. 3+3=6
- 22. What is in vitro pollination? Give a detailed 2+4=6 account of parasexual hybridization.

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23. Write a note on cybrids with necessary diagram. Add a note on in vitro fertilization.

4+2=

24. Describe structure and functions of suspensor. Add a note on apomixis. 4+2=

25. Give an illustrated account of classification, causes and applications of polyembryony.

3+2+1=6

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