

D 73258

(Pages : 2)

Name.....

Reg. No.....

FIRST SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(CBCSS—UG)

Botany

BOT 1B 01—ANGIOSPERM ANATOMY, REPRODUCTIVE BOTANY AND PALYNOLOGY

(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A

Answer all questions, each question carries 2 marks. Ceiling : 20 marks.

1. Differentiate raphides from cystoliths.
2. What is tapetum ? Add a note on its functions.
3. Explain pollen allergy with suitable examples.
4. Give an account of tunica-carpus theory.
5. On anatomical terms, explain 'bark'.
6. What are nectaries ? What is its significance to plants ?
7. List out any two major contributions of an Indian embryologist.
8. What are concentric vascular bundles ? Give an example.
9. Some fruits are gritty. Why ?
10. What are plasmodesmata ?
11. Explain the significance of endosperm in seed.
12. How protoxylem lacuna is formed ?

Section B

Answer all questions, each question carries 5 marks. Ceiling : 30 marks.

13. Give an account of cambium and its activity.
14. Describe in brief the non-living inclusions of the cell.
15. What is pollination and fertilization ? Add a note on barriers of fertilization met within Angiosperms.
16. With suitable diagrams, explain the anatomical features of a typical monocot stem.
17. Explain the structure of dicot embryo. Draw suitable diagrams.

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18. What are secretory tissues ? Bring out the different types of secretory tissues with suitable illustrations.
19. Explain exine ornamentation in Angiosperms.

Section C

Answer any one question, each question carries 10 marks. 1 × 10 = 10 marks.

20. With the help of labelled diagrams, describe the anomalous secondary growth in *Bignonia* stem.
21. Describe tetrasporic type of embryosac development in *Adoxa* with suitable diagrams.