

18. (a) Write an essay on the Nodal anatomy.

Or

- (b) Write an account on tension and compression wood.

19. (a) Describe the process of microsporogenesis in Angiosperms.

Or

- (b) Write an essay on physiology and biochemistry of incompatibility.

20. (a) Give an account of the haustorial structure organized by the endosperm.

Or

- (b) Explain seed coat development with an example.
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Reg. No. :

Code No. : 8180

Sub. Code : C 13 B

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2011.

First Semester

Botany

ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS

(For those who joined in July 2008 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL the questions.

Explain/Comment on/Write notes on the following:

1. Promeristem
2. Plerome.
3. Sap wood.
4. Cork.
5. Leaf Trace.
6. Sclereid.
7. Tapetum.

8. Syngamy.
9. Vermiform haustorium.
10. Labyrinth seeds.

PART B — (5 × 5 = 25 marks)

Answer ALL the questions, choosing either (a) or (b).

11. (a) Describe vegetative shoot apex.

Or

- (b) Explain Korper - Kappe theory.

12. (a) Write short note on Tracheids.

Or

- (b) Draw and differentiate end walls of Xylem vessels.

13. (a) Write short account on Leaf traces and Leaf gaps.

Or

- (b) Write defects in wood due to foreign organisms.

14. (a) Describe Pollen morphology with diagram.

Or

- (b) Describe the structure of stigma and its significance.

15. (a) Describe helobial endosperm of Monocotyledons.

Or

- (b) Write practical importance of Apomixis.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

16. (a) Describe any three theories with reference to organization of the apical Meristem.

Or

- (b) Write an account on the cellular structure and function of Cambium.

17. (a) Write an essay on the different kinds of phloem elements.

Or

- (b) Define secondary growth. Explain with an example.