

36324(New)

B.Sc. III - Semester (CBCS) Degree Examination, Nov./Dec. - 2018 BOTANY

(Plant Histology, Anatomy, Embryology And Palynology)

Paper - 3.1

(New)

Time: 3 Hours

Maximum Marks: 70

L. Answer the following questions:

 $(15 \times 1 = 15)$

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- Name the innermost layer of cortex.
- Mention the two types of lateral meristems in plants.
- 3. Define term "Plerome".
- What are latex cells? Give an example.
- 5. Name the cementing material found cell of Sclerenchyma.
- 6. What is Amphivasal type of vascular bundle?
- 7. What is Alburnum?
- 8. Define orthotropous ovule.
- 9. What is Amoeboid tapetum? Give an example.
- 10. What are Stone cells? Mention its function.
- 11. What is Pollen kitt? Mention its function.
- 12. What is Xenogamy?
- 13. Define the term "cleavage polyembryony".
- 14. What is the functional unit of male gametophyte?
- 15. What is Chiropterophily?

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(5×5=25)

- II. Answer any Five of the following questions.
 - 16. What is simple permanent tissue? Explain the different types of sclerenchyma.
 - 17. What are laticiferous tissues? Explain different types.
 - 18. Explain the Histogen theory of shoot apical meristem.
 - 19. Describe the T.S of Monocot root with neat labeled diagram.
 - 20. What is megasporangium? Explain the formation of megaspores with neat labeled diagram.
 - 21. Explain the wall layers of pollen grains and their significance in palynology.
 - 22. What is Monosporic embryosac? Explain the development of polygonum type of embryosac.
 - III. Answer any Three of the following questions:

 $(3 \times 10 = 30)$

- 23. What are meristems? Explain the tunica corpus theory of apical meristem.
- 24. Describe the T.S of Dicot leaf with neat labeled diagram.
- 25. Explain the Microgametogenesis with neat labeled diagram.
- 26. What is secondary growth? Explain the Secondary growth in dicot stem with net labeled diagram.
- 27. What is cross pollination? Explain the different agents of cross pollination.