M.Sc.DEGREE EXAMINATION,APRIL 2020
I Year II Semester
Plant Anatomy, Embryology and Palynology

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Cork cambium
2. Korper-Kappe theory
3. Differentiate heart wood and sap wood
4. Tyloses
5. Non-storied cambium
6. Unilacunar three traces node
7. Amphiphloic siphonostele
8. Polyembryony
9. Campylotropous ovule
10. Secretary tapetum
11. Nemec phenomenon
12. Melittopalynology

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. What are the three meristems? Explain briefly their differentiation.
14. Explain the method of maceration. Add a note on the elements obtained out of the technique.
15. Write a note on secondary xylem. Add note on wall patterns.
16. Comment on the vascular system of the floral parts.
17. What are the types of endosperms? Explain the helobial endosperm in detail.
18. List out the methods to overcome self-incompatibility in plants.
19. Explain NPC of pollengrains in angiosperms.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Give an account on shoot organization and the theories.
21. Describe the ontogeny, differentiation and structural variation of phloem elements.
22. Write an essay on the types of steles.
23. Explain the structure of embryosac. Add a note on its types.
24. Write a detailed account on the methods of pollination in plants.

M.Sc.DEGREE EXAMINATION,APRIL 2020
I Year II Semester
Plant Anatomy, Embryology and Palynology

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Cork cambium
2. Korper-Kappe theory
3. Differentiate heart wood and sap wood
4. Tyloses
5. Non-storied cambium
6. Unilacunar three traces node
7. Amphiphloic siphonostele
8. Polyembryony
9. Campylotropous ovule
10. Secretary tapetum
11. Nemec phenomenon
12. Melittopalynology

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. What are the three meristems? Explain briefly their differentiation.
14. Explain the method of maceration. Add a note on the elements obtained out of the technique.
15. Write a note on secondary xylem. Add note on wall patterns.
16. Comment on the vascular system of the floral parts.
17. What are the types of endosperms? Explain the helobial endosperm in detail.
18. List out the methods to overcome self-incompatibility in plants.
19. Explain NPC of pollengrains in angiosperms.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Give an account on shoot organization and the theories.
21. Describe the ontogeny, differentiation and structural variation of phloem elements.
22. Write an essay on the types of steles.
23. Explain the structure of embryosac. Add a note on its types.
24. Write a detailed account on the methods of pollination in plants.