

Roll No. _____

TOTAL NO. of Pages : 2

SIVS-N 189 A-16
B.Sc. IVth Semester Degree Examination
Botany
(Morphology and Embryology of Angiosperms)
Paper : 4
(New)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) *Answer all the questions.*
- 2) *Diagram will enhance the value of answers.*

Section - A

- I. Answer any ten from the following in two or more sentences. (10×2=20)**
1. What is endothecium? Mention its function.
 2. What is apomixis? Mention its types.
 3. What is pollen kit? Mention its function.
 4. What are schizo carpic fruits? Give an example.
 5. What are Urisch bodies? Mention their function.
 6. What is adnate stipule? Give an example.
 7. What is perianth? Name its units
 8. What are pneumatophores? Give an example.
 9. What is zygomorphic flower? Give an example.
 10. Differentiate between taproot and adventitious root.
 11. What is filiform apparatus? Mention its function.
 12. What is pollination? Mention its types

Section - B

II. Answer any **Four** of the following questions.

(5×4=20)

13. Define root. Explain underground taproot modifications for storage.
14. What are insectivorous plants? Explain leaf modification in *Nepenthes*.
15. What is special type of inflorescence? Explain Hypanthodium.
16. Explain the structure of mature embryo sac.
17. What is ovule? Describe different forms of ovules.
18. Give an account of oomycetes.

Section - C

III. Answer any **Four** of the following questions :

(10×4=40)

19. What is cymose inflorescence? Describe different types with examples.
 20. What is placentation? Describe different types with examples.
 21. Describe underground and aerial modifications of stem with examples.
 22. What is endosperm? Explain different types.
 23. What is fertilization? Describe the process of double fertilization with neat labelled diagram.
 24. Describe the developmental stages of dicot embryo.
-