

Roll No. _____

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SIVS-N-191 A-19
B.Sc IV 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.

I. Answer any TEN of the following in two or more sentences.

(10×2=20)

- 1) What is an Aggregate fruit? Give an example.
- 2) What is Pollen-kit? Mention its function.
- 3) Differentiate prop root and stilt root.
- 4) What are obturators? Mention its function.
- 5) Explain papilionaceous corolla with example.
- 6) Explain Xenogamy.
- 7) What is a Phyllotaxy? Mention the types.
- 8) Define Porogamy.
- 9) Differentiate Phyllode and Phylloclade.
- 10) What is Apomixis? Mention its types.
- 11) Define Verticillaster inflorescence with example.
- 12) What is Perisperm?

II. Answer any four of the followings.

(4×5=20)

- 13) Explain the wall layers of Matured anther with neat labelled diagram.
- 14) What is Aestivation? Explain different types with example.
- 15) Explain brief history and contribution of P.Maheshwari.
- 16) What is special type of Inflorescence? Explain cyathium.
- 17) Give an account of palynology.
- 18) Describe structure of Angiospermic ovule with neat labelled diagram.

III. Answer any four of the following.

(4×10=40)

- 19) What is Inflorescence? Describe any five types of Racemose inflorescence.
- 20) What is Megasporogenesis? Explain developmental stages of polygonum type of embryo-sac. <http://www.karnatakastudy.com>
- 21) Write a note on-
 - a) Pollen-Pistil interaction.
 - b) Parthenocarpy.
- 22) Describe any four root modification for vital functions with example.
- 23) Describe the developmental stages of dicot-embryo.
- 24) Explain:
 - a) Rhizome
 - b) Nepenthes
 - c) Syngenesious stamens
 - d) Monocot seed.

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