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SIVS 189 A-2K13

B.Sc. IVth Semester Degree Examination

Botany

(Structure Development and Reproduction in Flowering Plants)

Paper - 4.4

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 the following questions.

(1×15=15)

- 1) Write the function of selerids
- 2) What is Apospory?
- 3) What is Charmogamous flower?
- 4) What is Xenia?
- 5) Write the function of filiform apparatus.
- 6) Define malacophily?
- 7) What is Mesogamy?
- 8) Expand PEN.
- 9) What is polyembryony?
- 10) Define intrafasicular cambium?
- 11) Write the functions of pallisade parenchyma.
- 12) What is Epiblema?
- 13) Write the functions of collen chyma tissue.

- 14) What is secondary meristematic tissue?
- 15) What is Palynology?

Section - B

II. Answer any **five** of the following questions. **(5×5 =25)**

- 16) Describe the anatomy of grass leaf with neat labelled diagram.
- 17) Explain Epidermal tissue system.
- 18) Describe structure and functions of phloem.
- 19) What is endosperm? Explain structure of Helobial endosperm.
- 20) Write the contributions of B.G.L. Swamy and B.M. Johri.
- 21) Describe the structure of an atropous ovule with labelled diagram.
- 22) What is Anemophily? Write the adaptations found in Anemophilous flower.

Section - C

III. Answer any **four** of the following questions. **(4×10 =40)**

- 23) Describe the structure of Dicot embryo with labelled diagram.
 - 24) Describe anomalous secondary growth in Bougainvillia stem.
 - 25) Explain contrivances of self and cross pollination.
 - 26) Describe secondary growth in Dicot stem.
 - 27) Explain the wall layers of matured Anther.
 - 28) What is meristematic tissue? Classify meristematic tissue based on position in the plant body.
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