

**BACHELOR OF SCIENCE (CBCS-2018 COURSE)**  
**T. Y. B. Sc. Sem-V : WINTER :- 2021**  
**SUBJECT: BOTANY : BIOLOGY OF SEED PLANTS(ANGIOSPERMS)**

Day : Friday  
Date 21-01-2022

W-18423-2021

Time : 02:00 PM-05:00 PM  
Max. Marks: 60

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat labeled diagram **WHEREVER** necessary.
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**Q.1** Attempt **ANY TWO** of the following: (12)

- a) Describe Hutchinson's & Taktajan's system of classification with its merits & demerits.
- b) Explain types of ovules with suitable examples.
- c) Give distribution & functions of vein in leaf lamina.

**Q.2** Attempt **ANY TWO** of the following: (12)

- a) Explain development & structure of embryo sac in *Allium* with suitable examples.
- b) Describe stomatal types with suitable examples.
- c) Give difference between Angiosperms & Gymnosperms with suitable examples.

**Q.3** Attempt **ANY TWO** of the following: (12)

- a) Describe microgenesis in an Angiosperms.
- b) Explain concept of flower as modified shoot.
- c) Describe concept of evolution in flower.

**Q.4** Attempt **ANY THREE** of the following: (12)

- a) Give salient features of family Cannaceae with any two examples.
- b) Describe cymatium type of inflorescence.
- c) Explain floral characters of family Mangoliaceae.
- d) Give distinguishing characters of family Verbenaceae with two examples of it.

**Q.5** Attempt **ANY FOUR** of the following: (12)

- a) What is stomatal index with an example?
- b) Enlist examples of family Cucurbitaceae with its botanical names.
- c) Describe types of tapetum with its examples.
- d) Give distinguishing characters of family Bignoniaceae with any two examples of it.
- e) Enlist distinguishing characters of family Convolvulaceae.
- f) Explain pollination in Asclepiadaceae