

T.Y.B.SC. SEM – V (CBCS - 2016 Course) : SUMMER - 2019
SUBJECT: BOTANY: BIOLOGY OF SEED PLANTS (ANGIOSPERMS)

Day: Friday
Date: 12/04/2019

Time: 11.00 A.M. To 02.00 P.M.
Max. Marks: 60

S-2019-0862

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

-
- Q.1** Attempt **ANY TWO** of the following: (12)
- a) Give salient features of angiosperm.
 - b) Describe flower in detail.
 - c) What is tapetum? Explain structure of it.
- Q.2** Attempt **ANY TWO** of the following: (12)
- a) Explain process of microsporogenesis.
 - b) Give outline of Takhtajan's system of classification in angiosperm.
 - c) Explain development of *Polygonum* type of embryosac.
- Q.3** Attempt **ANY TWO** of the following: (12)
- a) Give the distinguishing characters of family *Labiatae* and *Cucurbitaceae*.
 - b) Explain structure of typical ovule.
 - c) Describe anatomical structure of dicotyledonous stem.
- Q.4** Attempt **ANY THREE** of the following: (12)
- a) Explain megasporogenesis in Angiosperm.
 - b) Give distinguishing characters of family *Cannaceae* with suitable examples.
 - c) Explain distribution and functions of veins in leaf lamina.
 - d) Give distinguishing characters of family *Mangoliaceae* and *Myrtaceae*.
- Q.5** Attempt **ANY FOUR** of the following: (12)
- a) Describe the structure of tetra sporangiate anther in Angiosperm.
 - b) Explain pollination in *Asclepidaceae*.
 - c) Give distinguishing characters of family *Papeveraceae* with suitable any two examples.
 - d) Explain cyathium inflorescence in family *Euphorbiaceae*.
 - e) Give examples of family *Sapotaceae*

* * * * *