

T. Y. B.Sc. SEM-V (CBCS-2016 COURSE): WINTER- 2018
SUBJECT: BOTANY: BIOLOGY OF SEED PLANTS (ANGIOSPERMS)

Day: Friday
Date: 12/10/2018

Time: 03.00 P.M. To 06.00 P.M
Max. Marks: 60

W-2018-0743

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 distribution and functions of veins and veinlet in leaf lamina.
- b) Explain concept of flower as modified shoot.
- c) Explain structure of typical pistil

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

- a) Give merits and demerits of Hutchinson's System of classification in angiosperm.
- b) Describe microsporogenesis in angiosperm.
- c) Explain anatomical structure of monocotyledon stem.

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

- a) Give the distinguishing features of family *Labiatae*.
- b) Describe structure of tapetum and its functions.
- c) Give economic importance of family *Myrtaceae*.

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

- a) Give types ovules with suitable examples.
- b) Explain cyathium inflorescence of *Euphorbiaceae*.
- c) Give different types of stomata with suitable examples.
- d) Describe structure of typical stamen.

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

- a) Give distinguishing characters of *Convolvulaceae*.
- b) Describe in brief *Polygonum* type of embryosac.
- c) Give outline of Taktajan's system of classification.
- d) Give distinguishing characters of family *Canaceae*.
- e) Give examples of family *Sapotaceae*.

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