

T.Y.B.SC. SEM – V (2014 COURSE) : WINTER - 2017

SUBJECT: BOTANY: BIOLOGY OF SEED PLANTS (Angiosperms)

Day: Wednesday
Date: 25/10/2017

W-2017-0647

Time: 3:00 P.M. TO 5:00 P.M.
Max. Marks: 40

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Neat labelled diagram should be drawn **WHEREVER** necessary.
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Q.1 Attempt any **TWO** of the following: (10)
a) Explain development of Polygonum type of embryo sac.
b) Give salient features of angiosperms.
c) Describe types of stomata along with suitable example.

Q.2 Attempt any **TWO** of the following: (10)
a) Describe nodal anatomy with suitable examples.
b) Explain structure of tetrasporangiate anther.
c) Give distinguishing features of family Papaveraceae with suitable examples.

Q.3 Attempt any **TWO** of the following: (10)
a) Explain pollination in Asclepidaceae.
b) Give distribution and functions of veins.
c) Explain flower in Labiatae family.

Q.4 Attempt any **FIVE** of the following: (10)
a) Give economic importance of family Myrtaceae.
b) Enlist economic importance of Sapotaceae.
c) Give merits of Bentham and Hooker's system of classification in angiosperm.
d) Describe anatropous ovule with suitable examples.
e) Give functions of flowers.
f) What is stomatal number and stomatal index in angiosperms?
g) What is megasporogenesis in angiosperm?

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