

S.Y.B.SC. SEM – III (CBCS - 2016 COURSE) : WINTER - 2017
SUBJECT : BOTANY: DEVELOPMENT BOTANY & EMBRYOLOGY (B -32)

Day : Friday
Date : 10/11/2017

Time : 11.00 A.M. TO 02.00 PM
Max. Marks :60

W-2017-0579

N. B. :

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

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- Q.1** Attempt any **TWO** of the following (12)
- a) Explain in brief shoot apical meristem.
 - b) Describe primary structure of dicotyledone stem.
 - c) Describe vascular cambium in secondary body of plants.
- Q.2** Attempt any **TWO** of the following (12)
- a) Comment on distribution of mechanical tissue in *Coleus* stem.
 - b) Explain in brief mechanism of opening and closing of stomata.
 - c) Explain anomalous secondary growth in *Borrhaevia*.
- Q.3** Attempt any **TWO** of the following (12)
- a) What is meristem? Explain Tunica corpus theory.
 - b) Explain epidermal tissue system and give their functions.
 - c) Write note on root apical meristem.
- Q.4** Attempt any **THREE** of the following (12)
- a) Define ovule and give types of ovules with an example.
 - b) Comment on tetrasporic embryo sac.
 - c) Explain polyembryonic phenomenon.
 - d) What is endosperm? Explain nuclear endosperm.
- Q.5** Attempt any **FOUR** of the following (12)
- a) What is bisporic embryo sac?
 - b) Give functions of mechanical tissue.
 - c) Explain crassinucellate ovule.
 - d) What is syngamy? Sketch, label and give an example.
 - e) Write short note on Bulliform cells.
 - f) Write note on compylotrophous ovule.

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