

**S.Y.B.SC. SEM – III (CBCS - 2016 COURSE) : SUMMER - 2018**  
**SUBJECT : BOTANY: DEVELOPMENT BOTANY & EMBRYOLOGY (B -32)**

Day : **Monday**

Date : **30/04/2018**

**S-2018-0657**

Time : **03.00 PM TO 06.00 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 diagrams **WHEREVER** necessary.
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- Q.1** Attempt any **TWO** of the following (12)
- a) Explain in brief Histogen theory.
  - b) Comment on organization of primary plant body.
  - c) Describe primary structure of monocotyledone stem.
- Q.2** Attempt any **TWO** of the following (12)
- a) Explain anomalous secondary growth in *Dracena*.
  - b) Give function of mechanical tissue system.
  - c) Describe various types of stomata with an example.
- Q.3** Attempt any **TWO** of the following (12)
- a) What is trichome? Give its various types with an example.
  - b) Write note on shoot apical meristem.
  - c) Explain normal secondary growth in dicotyledone stem.
- Q.4** Attempt any **THREE** of the following (12)
- a) What is megasporogium? Explain structure of sporangium in plant.
  - b) Comment on crassinucellate ovule.
  - c) Give types of embryo sac and comment on bisporic embryo sac.
  - d) Give structure & functions of pollen grain with suitable examples.
- Q.5** Attempt any **FOUR** of the following (12)
- a) What is synagamy? Sketch, label and give an example.
  - b) Comment on tetrasporic embryo sac.
  - c) Sketch & label structure of stomata.
  - d) Write note in Bulliform cells.
  - e) Distinguish between amphitropous and circinotropous ovule.
  - f) Comment on helobial endosperm.

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