

**F. Y. B. SC. (BIOTECHNOLOGY) SEM – I (CBCS - 2015  
COURSE) : WINTER - 2017  
SUBJECT: PLANT SCIENCE**

**Day:** Friday  
**Date:** 03/11/2017

**Time:** 02.00 PM TO 05.00 PM  
**Max. Marks:** 60

**W-2017-0932**

**N.B:**

- 1) **Q. No.1 and Q. No.5 are COMPULSORY.**
- 2) Attempt **ANY TWO** questions from **Q. No.2, 3, and 4** in Section-I.
- 3) Attempt **ANY TWO** questions from **Q. No. 6, 7 and 8** in Section-II.
- 4) Answer to both the sections should be written in **SEPARATE** answer book.
- 5) Figures to the right indicate **FULL** marks.

**SECTION-I**

- Q.1** Answer **ANY FIVE** of the following: **(10)**
- a) Explain diversity in plants with respect to habit
  - b) Describe mode of nutrition in lichens
  - c) Define fruit and enlist their types.
  - d) Give advantages of binomial nomenclature system of classification.
  - e) Enlist essential whorls of flower.
  - f) Write any two functions of leaf.
- Q.2** Answer the following:
- a) Explain general organization of plant body. **(05)**
  - b) Give general characteristics of algae. **(05)**
- Q.3** Answer the following:
- a) Distinguish between raceme and spike inflorescence. **(05)**
  - b) Describe life history of *Riccia* in brief. **(05)**
- Q.4** Answer the following:
- a) Give the classification of gymnosperms with suitable examples. **(05)**
  - b) Explain the dwarf shoot of *Pinus*. **(05)**

**SECTION-II**

- Q.5** Answer the following:
- a) Explain the process of phloem transport. **(05)**
  - b) What is seed? Give types of seeds in angiosperms. **(05)**
- Q.6** Answer the following:
- a) What is salinity stress? How do plants overcome it? **(05)**
  - b) Give application of anatomy in pharmacognosy. **(05)**
- Q.7** Write short notes on:
- a) Apomixis **(05)**
  - b) Seed dormancy **(05)**
- Q.8** Describe types of plant tissues and give their functions. **(10)**

**OR**

Describe the structure of strobilus in *Selaginella*.

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