

**F. Y. B. SC. (BIOTECHNOLOGY) SEM – I (CBCS - 2015  
COURSE) : SUMMER - 2018  
SUBJECT: PLANT SCIENCE**

**Day: Tuesday**  
**Date: 03/04/2018**

**Time: 10.00 am to 01.00 pm**  
**Max. Marks: 60**

**S-2018-1043**

**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) Define inflorescence.
  - b) Give biotechnological significance of algae.
  - c) Write any two functions of root.
  - d) Give general characteristics of angiosperms.
  - e) Define fruit and enlist their types.
  - f) Give advantages of binomial nomenclature system of classification.
- Q.2** Answer the following:
- a) Explain diversity in plant with respect to mode of nutrition and life span. **(05)**
  - b) Distinguish between monocot and dicot plant. **(05)**
- Q.3** Answer the following:
- a) Describe different forms of lichen. **(05)**
  - b) Give general characteristics of fungi. **(05)**
- Q.4** Answer the following:
- a) Give systematic position of *Pinus*. **(05)**
  - b) Define flower and give structure of typical flower. **(05)**

**SECTION-II**

- Q.5** Answer the following:
- a) Explain the concept of seed dormancy. **(05)**
  - b) What is photosynthesis? Give its significance. **(05)**
- Q.6** Answer the following:
- a) What is seed? Give types of seeds in angiosperms. **(05)**
  - b) Give applications of anatomy in ecological interpretation. **(05)**
- Q.7** Write short notes on:
- a) Wood identification **(05)**
  - b) Photoperiodism **(05)**
- Q.8** Describe types of plant tissue and give their functions. **(10)**

**OR**

Describe types of endosperms in angiosperms.

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