

**F. Y. B. Sc. (Biotechnology) SEM – I (CBCS - 2015 COURSE) :**

**WINTER - 2018**

**Subject: Plant Science**

Day: Wednesday

Date: 24/10/2018

**W-2018-1167**

Time: 10.00 AM TO 01.00 PM

Max. Marks: 60

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**N.B.:**

- 1) Q1 and Q5 are compulsory.
  - 2) Answer ANY TWO questions from Q 2, 3, 4 in Section I.
  - 3) Answer ANY TWO questions from Q 6, 7, 8 in Section II.
  - 4) Answers to Both the sections to be written in SEPARATE answer books.
  - 5) Draw a labeled diagram WHEREVER necessary.
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**SECTION - 01**

Q.1) Answer the following: (ANY FIVE) (2 Marks X 5 = 10)

- a) Write any two advantages of binomial nomenclature.
- b) Draw vegetative structure of *Chlorella*.
- c) Write any two characteristics of Dicot.
- d) Write any two characteristics of lichen.
- e) Enlist types of endosperms in angiosperms.
- f) Distinguish between racemose and cymose inflorescence.

Q.2) Answer the following: (5 Marks X 2 = 10)

- a) Describe external structure of *Riccia* thallus.
- b) Describe rules of binomial nomenclature with suitable examples.

Q.3) Explain the following: (5 Marks X 2 = 10)

- a) Explain concept of binomial nomenclature with suitable example.
- b) Explain flower as a modification of shoot on the basis of concepts and evidences.

Q.4) Write short notes on the following: (5 Marks X 2 = 10)

- a) Sexual reproduction in *Riccia*.
- b) Racemose inflorescence.

**SECTION - 02**

Q.5) Answer the following: (ANY FIVE) (2 Marks X 5 = 10)

- a) Write any two functions of leaf.
- b) Write any two significance of inflorescence.
- c) Write the role of ethylene in fruit ripening.
- d) What is symbiotic nitrogen fixation?
- e) What is mean by long day plants? Give its examples.
- f) Define Plant tissue and enlist its types.

Q.6) Answer the following: (5 Marks X 2 = 10)

- a) Describe structure of dicot seed.
- b) Describe anatomy of dicot leaf.

Q.7) Explain the following: (5 Marks X 2 = 10)

- a) Explain the types of dormancy.
- b) Explain brief account of glycolysis process with significance of respiration.

Q.8) Write short notes on the following: (5 Marks X 2 = 10)

- a) Apomixes
- b) Photoperiodism

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