

F.Y.B.SC. SEM – I (2014 COURSE) : WINTER - 2017

SUBJECT: BOTANY: CELL BIOLOGY

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

W-2017-0592

Time : **12.00 NOON TO 02.00 PM**
Max. Marks : **40**

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) All questions carry **EQUAL** marks.
 - 3) Draw neat labeled diagrams **WHEREVER** necessary.
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Q.1 Attempt any **TWO** of the following: **(10)**

- a) Describe ultrastructure and functions of mitochondria.
- b) Give structure and functions of golgi complex.
- c) Explain organization of cellulose in cell wall.

Q.2 Attempt any **TWO** of the following: **(10)**

- a) Define meiosis and explain stages of Prophase-I.
- b) Give difference between prokaryotic cell and eukaryotic cell with suitable examples.
- c) Give the functions of lysosomes.

Q.3 Attempt any **TWO** of the following: **(10)**

- a) Give various stages of mitosis.
- b) Explain ultrastructure and functions of chloroplast.
- c) Describe ultrastructure of nucleus and give its functions.

Q.4 Attempt any **FIVE** of the following: **(10)**

- a) Give the significance of meiosis.
- b) What is apoptosis?
- c) Give functions of ribosomes.
- d) Give types of endoplasmic reticulum.
- e) What is cytoskeleton?
- f) What is centromere and give its functions.
- g) Give difference between glyoxysomes and peroxysomes.

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