

F.Y.B.SC. SEM – I (2014 COURSE) : SUMMER - 2018

SUBJECT: BOTANY: CELL BIOLOGY

Day : **Monday**
Date : **23/04/2018**

S-2018-0684

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) What is cell division? Describe any two stages of mitosis.
- b) Comment on “Lysosomes are the suicidal bag.”
- c) Give ultrastructure of chloroplast.

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

- a) Explain structure and functions of endoplasmic reticulum.
- b) Describe origin and structure of golgi complex.
- c) Give functions of cell wall.

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

- a) Describe cell structure and its historical background.
- b) What is telomere? Give its functions.
- c) Describe ultrastructure of the nucleus.

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

- a) Give chemical constituents of cell wall.
- b) What is cytoskeleton?
- c) Give significance of meiosis.
- d) Explain terms apoptosis.
- e) Give the functions of mitochondria.
- f) Define prokaryotic cell with suitable examples.
- g) Give the functions of plasma membrane.

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