

F.Y.B.Sc. SEM – I (CBCS 2018 COURSE) : WINTER - 2018
SUBJECT: BOTANY: CELL BIOLOGY

Day: Saturday
Date: 20/10/2018

W-2018-0672

Time: 11.00 A.M TO 02.00 PM
Max Marks. 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
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Q.1 Attempt any **TWO** of the following **(12)**

- a) Comment on “Lysosomes are suicidal bag”.
- b) Describe the comparative account of prokaryotic and eukaryotic cell.
- c) Explain role and ion channels in cellular transport.

Q.2 Attempt any **TWO** of the following **(12)**

- a) Explain prophase I in meiosis I.
- b) Describe cell structure and its historical background.
- c) Explain concept of apoptosis.

Q.3 Attempt any **TWO** of the following **(12)**

- a) Explain mitochondria as powerhouse of cell.
- b) Describe ultrastructure of chloroplast.
- c) Explain organization of cellulose in cell wall.

Q.4 Attempt any **THREE** of the following **(12)**

- a) Comment on peroxysomes and glyoxysomes.
- b) What is centromere and give its function?
- c) Explain structure and function of endoplasmic reticulum.
- d) Explain any two stages of mitosis.

Q.5 Attempt any **FOUR** of the following **(12)**

- a) Give significance of meiosis.
- b) Explain types of ribosomes with its structure.
- c) Give role of various membrane proteins.
- d) Explain cytoskeleton with its importance.
- e) Distinguish between exocytosis and endocytosis.

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