

F.Y.B.Sc. SEM – I (CBCS 2018 COURSE) : SUMMER - 2019
SUBJECT: BOTANY: CELL BIOLOGY

Day: Saturday
Date: 27/04/2019

S-2019-0775

Time: 03.00 PM TO 06.00 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.
-

Q.1 Attempt any **TWO** of the following **(12)**

- a) Describe Danielli and Dawson model of plasma membrane.
- b) Give types and functions of ribosomes.
- c) Comment on “Mitochondria as power house of cell”.

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

- a) Explain structure and functions of endoplasmic reticulum.
- b) Describe anaphase I and metaphase I in meiosis.
- c) Explain pigments with its functions in plant cell.

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

- a) Give types of mitosis in plant cell.
- b) Describe ultrastructure of nucleus and give its functions.
- c) State functions of golgi complex.

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

- a) What is telomere and give its functions.
- b) Comment on resting cell and dividing cell.
- c) Explain organization of cellulose in cell wall.
- d) Describe apoptosis with suitable example.

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

- a) State the functions of Lysosomes.
- b) Describe peroxysomes and its importance.
- c) Explain role of ion channels and pumps in cell.
- d) Describe nucleolus in plant cell.
- e) Sketch and label structure of DNA.

* * *