

F.Y.B.SC. SEM – I (2014 Course) : WINTER - 2018

SUBJECT : BOTANY : CELL BIOLOGY

Day : Saturday
Date : 20/10/2018

W-2018-0777

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

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q.1 Attempt **ANY TWO** of the following: **[10]**

- a) Describe ultra-structure of chloroplast and give its function.
- b) Explain ultra-structure of nucleus and give its function.
- c) Describe structure and functions of endoplasmic reticulum.

Q.2 Attempt **ANY TWO** of the following: **[10]**

- a) Explain structure and functions of mitochondria.
- b) Give structure and functions of ribosomes.
- c) Comment on “Lysosomes are suicidal bag”.

Q.3 Attempt **ANY TWO** of the following: **[10]**

- a) Describe origin and structure of Golgi complex.
- b) Give functions of cell wall.
- c) Describe cell structure and its historical background.

Q.4 Attempt **ANY FIVE** of the following: **[10]**

- a) Give difference between glyoxysomes and peroxisomes.
- b) Give any two stages of mitosis.
- c) Give functions of plasma membrane.
- d) What is telomere? Give its function.
- e) Explain term apoptosis.
- f) What is cytoskeleton?
- g) Explain role of ion channels in cellular transport.

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