

F.Y.B.SC. SEM – I (2014 Course) : SUMMER - 2019
SUBJECT : BOTANY : CELL BIOLOGY

Day : Saturday
Date : 27/04/2019

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

S-2019-0943

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) Give types of ribosomes and its functions.
- b) Explain types of endoplasmic reticulum and its functions.
- c) Describe ultra-structure of chloroplast.

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

- a) Comment on peroxisomes and glyoxisomes.
- b) What is centromere and give its functions?
- c) Comment on “Mitochondria as powerhouse of cell”.

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

- a) Explain organization of cellulose in cell wall.
- b) Define meiosis. Explain stages of prophase – I.
- c) Describe nuclear envelope and nuclear pore complex.

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

- a) Give the functions of Golgi complex.
- b) What is apoptosis?
- c) Give functions of lysosomes.
- d) Explain role of ion channels in cellulose transport.
- e) Give various stages of mitosis.
- f) What is telomere? Give its functions.
- g) Give the functions of plasma membrane.

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