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BACHELOR OF SCIENCE (CBCS-2018 COURSE)
F. Y. B. Sc. Sem-I : WINTER- 2022
SUBJECT : BOTANY : CELL BIOLOGY

Day : Friday

Time : 10:00 AM-01:00 PM

Date : 16-12-2022

W-18299-2022

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) Describe ultrastructure of nucleus and give its functions.
- b) Comment on "Lysosome are suicidal bag".
- c) Describe structure and function of ribosome.

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

- a) Give functions of mitochondria.
- b) State the functions of Golgi complex.
- c) Give origin and types of endoplasmic reticulum.

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

- a) Describe ultrastructure of chloroplast and give its function.
- b) Give function of plasma membrane.
- c) What is cell division? Describe in brief meiotic- II cell division.

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

- a) Comment on glyoxysomes and peroxysomes.
- b) What is centromere? Give its functions.
- c) Define mitosis? Explain any two stages of mitosis.
- d) Describe Danielli and Danson model of plasma membrane.

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

- a) Distinguish between exocytosis and endocytosis.
- b) Give origin and chemical composition of ribosome.
- c) Explain structure of nuclear pore complex.
- d) Describe cell structure and its historical background
- e) Give the types of spindle fiber and their role in cell division.
- f) Define chromosome and explain different types of chromosome.

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