



K21U 3490

Reg. No. :

Name :

**II Semester B.Sc. Degree (CBCSS – OBE-Reg./Sup./Imp.)
Examination, April 2021
(2019 Admission Onwards)
COMPLEMENTARY ELECTIVE COURSE IN PHYSIOLOGY
2C02 PLY : Cell Biology**

Time : 3 Hours

Max. Marks : 32

PART – I

- I. Essay questions: Answer **any two**. (2×6=12)
- 1) Explain the fluid mosaic model of plasma membrane.
 - 2) Describe oxidative phosphorylation and ATP synthesis.
 - 3) Explain protein synthesis.
 - 4) Describe the various stages of meiotic prophase.

PART – II

- II. Short essay questions. Answer **any two** questions. (2×3=6)
- 5) Comment on polytene chromosomes.
 - 6) What is Nucleosome ?
 - 7) Explain cell cycle.

PART – III

- III. Short answer questions. Answer **any six**. (6×2=12)
- 8) Describe cell theory.
 - 9) What is GERL ?
 - 10) Mention about clathrin.

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- 11) Distinguish between heterochromatin and euchromatin.
- 12) What is glycocalyx ?
- 13) Explain the functions of centrioles.
- 14) Differentiate between RER and SER.
- 15) What is unit membrane concept ?

PART – IV

IV. Multiple choice questions. Answer **all**.

(4×0.5=2)

- 16) Pairing of homologous chromosomes is termed as
 - a) Chiasma
 - b) Terminalisation
 - c) Synapsis
 - d) Diakinesis
 - 17) Removal of introns and joining of exons is known as
 - a) Splicing
 - b) Capping
 - c) Tailing
 - d) Transduction
 - 18) The synthesis of RNA is known as
 - a) Translation
 - b) Processing
 - c) Transcription
 - d) Denaturation
 - 19) Synapsis take place in which stage ?
 - a) Leptotene
 - b) Zygotene
 - c) Diplotene
 - d) Pachytene
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