



K20U 0490

Reg. No. :

Name :

**II Semester B.Sc. Degree CBCSS (OBE)-Regular Examination, April 2020
(2019 Admission)
Complementary Elective Course in Physiology
2C02 PLY : CELL BIOLOGY**

Time : 3 Hours

Max. Marks : 32

- I. **Essay** questions : Answer **any two**. (2×6=12)
- 1) Explain the transport mechanisms across the plasma membrane.
 - 2) Describe the structure of interphase nucleus.
 - 3) Explain cell cycle with its check points.
 - 4) Describe the process of transcription.
- II. **Short essay** questions : Answer **any two** questions. (2×3=6)
- 5) What are the major differences between mitosis and meiosis ?
 - 6) Describe the structure and composition of eukaryotic ribosomes.
 - 7) Explain polymorphism in Lysosomes.
- III. **Short Answer** questions : Answer **any six**. (6×2=12)
- 8) What is cell theory ?
 - 9) What oxidative phosphorylation ?
 - 10) Give the functions of Endoplasmic reticulum.
 - 11) What do you mean by semi conservative method of DNA replication ?
 - 12) What are polytene chromosomes ?
 - 13) Explain the functions of centrioles.
 - 14) How nucleolus is formed ?
 - 15) What is sandwich model for plasma membrane ?

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

(4×0.5=2)

16) Terminalisation is take in

- a) Leptotene b) Zygotene c) Pachytene d) Diakinesis

17) The adding of methyl Guanosine at 5 prime endis known as

- a) Splicing b) Capping c) Tailing d) Transduction

18) Initiation codon is

- a) UAA b) UAG c) GAA d) AUG

19) Lecithin is chemically

- a) Carbohydrate b) Protein c) Lipid d) Nucleic acid
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