

Dr. V S. KRISHNA GOVERNMENT DEGREE COLLEGE AND PG COLLEGE (A),
VISAKHAPATNAM

B.Sc. (Hons) ZOOLOGY – SEMESTER II

PAPER: CELL AND MOLECULAR BIOLOGY – 23 ZOOM

QUESTION PAPER

Time: 3 Hours

Max. Marks: 60

PART-A

Answer any **FIVE** of the following Questions. Each question carries **Four** marks. 5×4=20 M

1. Fluid mosaic model of Plasma membrane
2. Ribosomes
3. Structure and functions of Nucleus
4. Cell cycle
5. Semi-conservative mode of DNA replication
6. Central dogma of molecular biology
7. Lac Operon
8. Initiation of Translation
9. Structure of Glucose
10. Glycolysis

PART-B

Answer **ALL** the following Questions. Each question carries **Eight** marks. 5×8=40 M

11. (a) Write about the structure and functions of Golgi complex.

OR

- (b) Write about the structure and functions of Lysosomes.

12. (a) Write about the structure and functions of Mitochondria.

OR

- (b) Define Cell division? Write the differences between mitosis and meiosis.

13. (a) Explain the basic concept of DNA replication.

OR

- (b) Discuss the process of transcription in prokaryotes.

14. (a) Give a detailed account of translation in prokaryotes.

OR

- (b) Write an essay on gene expression in prokaryotes.

15. (a) Write about the biological importance of carbohydrates.

OR

- (b) write an essay on krebs cycles