

QUESTION PAPER

Time: 3 Hours

Max. Marks: 60

PART-A

Answer any **FIVE** of the following Questions. Each question carries **Four** marks. $5 \times 4 = 20$ 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. $5 \times 8 = 40$ 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

B.Voc. COURSE IN AQUACULTURE
Dr.V.S Krishna Govt., Degree College (A) Visakhapatnam
Semester -V ; III B.Voc
Title: CELL BIOLOGY HISTOLOGY
Time : 3Hrs **CODE: 52293** **Man. Marks :75**

Section - A

I Answer any FIVE of the following
Draw labelled diagrams wherever necessary

5x5=25M

- 1 Fluid mosaic model
- 2 Briefly explain cell theory
- 3 Structure of Lysosomes
- 4 Ribosome's
- 5 Cell cycle
- 6 What is Meiosis
- 7 Types of muscle
- 8 Structure of Nerve cell

Section - B

II Answer any FIVE of the following
Draw labelled diagrams wherever necessary

5x10=50M

- 9.a) Describe the structure of animal cell ?
Or
b) Describe the structure functions of plasma membrane
- 10.a) Describe the structure and function of Ribosome's
Or
b) Describe the structure and function of Mitochondria ?
- 11 a.) Explain the structure and function of Golgi complex ?
Or
b) Describe the structure and function of Lysosomes ?
- 12 a.) Explain the histology and structure functions of epithelial tissue ?
Or
b.) Write an essay on connective tissue.
- 13.a) Explain cell division
Or
b.) Give an account of the structure of plasma membrane .