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SUBJECT CODE NO: -BB-2326
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (CBCGS) (Pattern 2022) F.Y. SEM I
Examination November / December 2025
Zoology Paper -II Cell Biology

[Time: 1:30 Hours]**[Max. Marks: 40]**

Please check whether you have got the right question paper.

N. B

- 1) All questions are compulsory.
- 2) All questions carry equal marks.
- 3) Draw neat diagrams & give labels wherever necessary.
- 4) Figures to the right indicate full marks.

Q1 Describe the structure of eukaryotic cell with suitable diagram.**10 M****OR**

Explain in brief ;

- a) Define proteins & mention their basic role in cell.
- b) Types of vitamins.

Q2 Describe the structure & functions of Mitochondria.**10 M****OR**

Explain in brief ;

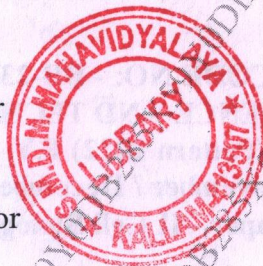
- a) Structure & function of ribosomes
- b) Types of RNA

Q3 Write short notes on any two**10 M**

- a) Prokaryotic cell
- b) Lipids
- c) Functions of plasma membrane
- d) Types of cancer

Q4 Select and write correct answer from the given alternatives in each sub question.**10 M**

- 1) Eukaryotic cells differ from prokaryotic cells by having
 - a) Cell wall only
 - b) Absence of DNA
 - c) Membrane bound organelles
 - d) Circular DNA
- 2) Synapsis is the pairing of
 - a) Non homologous chromosomes
 - b) Acentric chromosomes
 - c) Homologous chromosomes
 - d) Metacentric chromosomes
- 3) _____ cell organelle is called suicide bag of cell.
 - a) Lysosome
 - b) Mitochondria
 - c) Golgi bodies
 - d) Ribosomes



- 4) The sugar in RNA is
a) Deoxyribose Sugar
b) Ribose Sugar
c) Glucose
d) Fructose
- 5) Lipids are important for
a) Energy Storage
b) Cell membrane structure
c) Insulation
d) All the above
- 6) Fluid mosaic model describes the structure of
a) Mitochondria
b) Nucleus
c) Plasma membrane
d) Ribosomes
- 7) Which cell organelle do not contain DNA?
a) Nucleus
b) Chloroplast
c) Mitochondria
d) Lysosome
- 8) The stage in which chromosomes move towards the pole is
a) Metaphase
b) Anaphase
c) Telophase
d) Prophase
- 9) Proteins are made of
a) Amino acids
b) Fatty acids
c) Monosaccharides
d) Nucleotides
- 10) Which of the following is a type of cancer?
a) Adenoma
b) Carcinoma
c) Fibrosis
d) Cyst