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**SUBJECT CODE NO: - CB-2342**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. F.Y. (Sem-I)**  
**Examination December/January-2022-23**  
**Zoology Paper-II ZOO-021 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 and give labels wherever necessary
- 4) Figures to the right indicate full marks.

Q1 Describe general structure of Eukaryotic cell.

**10**

OR

Explain in brief.

- a) Proteins
- b) Salts & ions

Q2 Explain in detail fluid mosaic model of plasma membrane.

**10**

OR

Explain in brief.

- a) Structure of Nucleus
- b) m-RNA

Q3 Write short notes on (any 2)

**10**

- 1) Metaphase of mitosis
- 2) Vitamins
- 3) Ribosomes
- 4) Effect of radiations on cell

Q4 Select and write correct answer from the given alternative in each question.

10

- 1) The prokaryotic cell lacks -----
  - a) Cytoplasm
  - b) Ribosomes
  - c) Well organized nucleus with nuclear membrane
  - d) All of these
  
- 2) Mitosis occurs in -----
  - a) Germ cells
  - b) Somatic cell
  - c) Both a and b
  - d) None of these
  
- 3) Polysaccharides are made up of -----
  - a) Glucose monomer
  - b) Amino acid monomer
  - c) Fatty acid monomer
  - d) Nucleotides
  
- 4) Chromosomes become shorter and thicker during -----
  - a) Prophase
  - b) Metaphase
  - c) Anaphase
  - d) Telophase
  
- 5) Phagocytised food is digested in -----
  - a) Golgi body
  - b) Ribosomes
  - c) Lysosomes
  - d) Plasma membrane

- 6) The site of respiration within the cell is -----
- a) Nucleolus
  - b) Mitochondria
  - c) Ribosomes
  - d) None of these
- 7) Who discovered the structure of DNA?
- a) Camillo Golgi
  - b) Robert Brown
  - c) Watson and Crick
  - d) Robert Hook
- 8) DNA is a polymer of -----
- a) Amino acid
  - b) Monosaccharides
  - c) Fatty acid
  - d) Nucleotides
- 9) Nucleosomes are -----
- a) Nucleous
  - b) Chromosomes
  - c) Repeating units of chromatin
  - d) None of these
- 10) Metastatic cancer developed in fibroblast is known as -----
- a) Leukemia
  - b) Malignant
  - c) Sarcoma
  - d) None of these