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**SUBJECT CODE NO:- B-2068**  
**FACULTY OF SCIENCE & TECHNOLOGY**  
**B.Sc. F.Y. (Sem-I)**  
**Examination November/December- 2022**  
**Zoology Paper-II**  
**Cell Biology**

**[Time: 1:30 Hours]**

**[Max. Marks:50]**

Please check whether you have got the right question paper.

N.B

- 1) Attempt all questions
- 2) Illustrate your answer with suitable labelled diagram

Q.1 What is cell cycle? Explain in detail the meiosis. 20

OR

Discuss the structure of prokaryotic cell with example

Q.2 Explain in detail the structure and function of plasma membrane 20

OR

Write shorts notes on any four of the following

- 1) Eukaryotic cell
- 2) Lysosome
- 3) Telophase
- 4) Electron microscope
- 5) Cancer
- 6) Staining

Q.3 Select and write correct answer from the given alternative in each question 10

1. Which of the following is the largest single membrane –bound intracellular compartment?

- a) Ribosome
- b) Golgi apparatus
- c) Nucleus
- d) Endoplasmic reticulum

2. Who observed the “mitochondria” first
  - a) Kolliker
  - b) Robert Brown
  - c) Robert Hook
  - d) Altmann
  
3. Digestion of cells own components is known as
  - a) Autophagy
  - b) Heterophagy
  - c) Phagocytosis
  - d) Pinocytosis
  
4. The plasma membrane is impermeable to all molecules except
  - a) Glucose
  - b) APT
  - c) K<sup>+</sup>
  - d) Area
  
5. In 70s ribosomes ‘S’ stand for
  - a) SI unit
  - b) Solubility factor
  - c) Svedbergs unit
  - d) All of these
  
6. Chromosomes are arranged along equator during.
  - a) Prophase
  - b) Metaphase
  - c) Anaphase
  - d) Telophase

7. Which phase come between G1 and G2 Phase?

- a) Go
- b) M
- c) S
- d) I

8. Chiasmata formation take place during

- a) Prophase-I
- b) Metaphase-I
- c) Anaphase-I
- d) Telophase-I

9. Molecule which plays the role in the transfer of genetic information during protein synthesis are

- a) DNA
- b) RNA
- c) Lipids
- d) Nucleic acid

10. Who introduced the term 'Nucleic acid'?

- a) Meisher
- b) Robert Brown
- c) Altmann
- d) Lipmann