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SUBJECT CODE NO: - BNP-2699
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (NEP) (P-2024) S.Y Sem III
Examination November / December 2025
Zoology (Cell Biology)

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

Please check whether you have got the right question paper.

N. B

- 1) Part 'A' is compulsory.
- 2) Attempt any four questions from Part 'B'.
- 3) Draw Neat labelled diagrams wherever necessary.

**PART-A****Q1 Attempt the following.****10**

- 1) The Prokaryotic cells are characterised by:
 - a) A distinct nuclear membrane
 - b) Absence of Nuclear membrane
 - c) Absence of chromatin Material
 - d) Distinct chromosome
- 2) Ribosomes are composed of...
 - a) RNA and proteins
 - b) RNA and lipids
 - c) RNA and carbohydrates
 - d) Proteins and lipids
- 3) cell Theory is not applicable to ----
 - a) virus
 - b) Fungi
 - c) Algae
 - d) Micro organisms
- 4) when does synapsis occur during meiosis...
 - a) Diplotene
 - b) Pachytene
 - c) Zygotene
 - d) Leptotene
- 5) Endoplasmic reticulum membrane, which is associated with ribosomes is called...
 - a) ER lumen
 - b) Rough endoplasmic reticulum
 - c) Smooth endoplasmic reticulum
 - d) Endosome

PART-B

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|---|-----------|
| Q2 Describe the structure of plasma Membrane? | 05 |
| Q3 What do you understand by oxidative Phosphorylation? | 05 |
| Q4 Explain cell cycle control system for regulation of cell cycle? | 05 |
| Q5 Differentiate between prokaryotic cell and eukaryotic cell? | 05 |
| Q6 Explain the Structure and Function of Mitochondria? | 05 |
| Q7 Write the differences between mitosis and meiosis? | 05 |