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B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

First Semester

UBT18101 – CELL BIOLOGY

(For the candidates admitted during the academic year 2018-2019 onwards)

Time: Three hours

Max. Marks: 100

Answer **ALL** Questions

PART – A (10 × 2 = 20 Marks)

1. What are NAM and NAG?
2. Comment on Meiotic interphase.
3. Define active transport.
4. Give a short note on suicidal bags.
5. Mention the role of cytosolic receptor.
6. Comment on cAMP.
7. What are Microfilaments?
8. Depict the structure of Mitochondria.
9. State the meaning of oncogenes.
10. Define Benign tumour.

PART – B (5 × 16 = 80 Marks)

11. a. Explain the structure and functions of Eukaryotic cells.

(OR)

- b. Diagrammatically explain the stages and developments in Mitotic cell division.

12. a. Give an elaborate account on fluid Mosaic model of Plasma membrane.

(OR)

- b. Illustrate the structure and functions of
 - i. Endoplasmic Reticulum
 - ii. Ribosomes

13. a. Demonstrate the process of cell signaling.

(OR)

- b. Elucidate the diversity and functions of G-proteins.

14. a. Explain the structure and functions of
 - i. Nucleus
 - ii. Chromatin

(OR)

- b. Enumerate types of filaments and their functions.

15. a. Discuss the causes of cancer.

(OR)

- b. Describe on the different treatment strategies of cancer.

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