

KATHMANDU UNIVERSITY
End Semester Examination[C]
November/December, 2023

Marks Scored:

Level : B.Tech.

Course : BIOT 205

Year : II

Semester : I

Exam Roll No. :

Time: 30 mins.

F. M. : 20

Registration No.:

Date **27 NOV 2023**

SECTION "A"

[10 Q. × 0.5 = 5 marks]

Mark [X] appropriate answer from the given choices.

- Expelling of large size materials outside the cell through cell membrane is called
 pinocytosis phagocytosis exocytosis plasmolysis
- Tonoplast is a differentially permeable membrane that encloses the
 cytoplasm nucleus mitochondria vacuole
- Lampbrush chromosomes found in the oocytes of amphibians are seen in
 leptotene pachytene diplotene zygotene
- G1, S, and G2 are phases noticeable in
 prophase metaphase anaphase interphase
- Chiasma represents the site of
 synapsis disjunction
 crossing over terminalization
- Singer and Nicolson's model of plasma membrane differs from Robertson's model in
 number of lipid layers arrangement of lipid layers
 arrangement of proteins absent of proteins in singer's model
- Proto- oncogenes can be converted into oncogenes by
 Mutation Polyploidy
 Evolution Expression of downstream genes
- Prokaryotic genome consists of
 DNA without histones DNA with carbohydrate
 DNA with histones Histones
- Exception of cell theory is
 bacteria fungi viruses lichens
- Terminalisation occurs during
 Mitosis Meiosis Diakinesis Cytokinesis

SECTION "B"

Fill in the blanks

[5Q. × 1 = 5 Marks]

- Photosynthetic unit is

12. Microvilli areof cell membrane.
13. Half of all cancers involve mutations of the.....
14. Metaphase plate is formed by.....
15. Active transport is energy.....transport of molecules across a semipermeable membrane.

SECTION "C"

Define in one sentence.

[10 Q. × 1 = 10 Marks]

16. Calmodulin
17. Desmosomes
18. Microtubules
19. Polyribosomes
20. Intrinsic proteins
21. Metastases
22. F₁ particle
23. Immunotoxin
24. STAT
25. Quantasomes