

25U128

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Name :

Reg. No :

FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(FYUGP)

(Regular/Supplementary/Improvement)

CC24UZOO1MN102 - BASICS IN CELLULAR PHYSIOLOGY

(Zoology - Minor Course)

(2024 Admission onwards)

Time: 2.0 Hours

Maximum: 70 Marks

Credit: 4

Part A (Short answer questions)

Answer *all* questions. Each question carries 3 marks.

1. Define lysosome. [Level:1] [CO1]
2. Define cytoplasm. [Level:1] [CO1]
3. Define tissue. [Level:1] [CO1]
4. Define pyrimidines. [Level:1] [CO2]
5. Point out the differences between genotype and phenotype. [Level:1] [CO3]
6. Define leptotene stage. [Level:1] [CO1]
7. Define nonsense mutation. [Level:1] [CO4]
8. Define Down's syndrome. [Level:1] [CO4]
9. Define Turner's syndrome. [Level:1] [CO4]
10. Define spontaneous mutation. [Level:1] [CO4]

(Ceiling: 24 Marks)

Part B (Paragraph questions/Problem)

Answer *all* questions. Each question carries 6 marks.

11. Comment on genetic code. [Level:2] [CO2]
12. Point out the differences between anaphase and telophase of mitotic division. [Level:1] [CO1]
13. Describe the structures of protein and lipid. [Level:1] [CO1]
14. Describe DNA replication. [Level:1] [CO2]

15. Give a note on sex-linked chromosomes. [Level:2] [CO2]
16. List out the differences between linkage and crossing over. [Level:1] [CO2]
17. Describe dihybrid cross. [Level:1] [CO3]
18. Describe the other patterns of inheritance - Incomplete dominance and co-dominance with suitable diagram. [Level:1] [CO3]

(Ceiling: 36 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

19. Describe the spatial and temporal pattern of gene activity. [Level:1] [CO1]
20. Explain gene mutation disorders. [Level:2] [CO4]

(1 × 10 = 10 Marks)
