TB245287S Reg. No :.....

Name	

BACHELOR'S DEGREE (C.B.C.S.) EXAMINATION, FEBRUARY 2024 2021 ADMISSIONS SUPPLEMENTARY (SAY) SEMESTER V - CORE COURSE (ZOOLOGY) ZY5B06B18 - Cell Biology and Genetics

Time: 3 Hours Maximum Marks: 60

Part A

I. Answer any Ten questions. Each question carries 1 mark

(10x1=10)

- 1. What is mycoplasma?
- 2. What is symbiont hypothesis?
- 3. What are the functions of nucleolus?
- 4. Write any two functions of lysosomes.
- 5. Explain contractile ring theory.
- 6. Distinguish between test cross and back cross.
- 7. Compare wild type and mutant allele.
- 8. What are Free Martins?
- 9. Explain criss cross inheritance.
- 10. Distinguish between monoecious and dioecious.
- 11. Define pedigree.
- 12. Describe Euthenics.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

- 13. Write the functions of plasma membrane.
- 14. Explain active transport across the plasma membrane.
- 15. Explain the functions of lysosome.
- 16. Write a note on lethal genes.
- 17. Explain Chromosome theory of heredity.
- 18. Describe Barr body and Lyon Hypothesis.
- 19. Write a note on pseudoautosomal genes
- 20. Explain the hormonal influence on sex determination by giving suitable examples.
- 21. Write a note on different types of mutations.

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

- 22. Explain the structure and functions of interphase nucleus.
- 23. Explain cAMP pathway. Add a note on types of intercellular signalling.
- 24. Describe multiple alleles. Explain the inheritance of ABO blood group in man.
- 25. Write an account on gene mutations and human disorders.



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