

QP CODE: 25020939



Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE / MERCY CHANCE
EXAMINATIONS, FEBRUARY 2025**

Sixth Semester

B.Sc Biotechnology Model III

**CHOICE BASED CORE COURSE - BT6CBT03 - DISEASES AND DIAGNOSTIC
BIOTECHNOLOGY**

2017 Admission Onwards

E6D6B90B

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Morphological stages of Lishmania.
2. Biofilms.
3. Sickle cell aneamia.
4. Functions of CFTR protein.
5. What is a candidate gene?
6. Describe ligation chain reaction.
7. What is southern blot?
8. Give the applications of fingerprinting in forensic science.
9. Expand FRET.
10. Descibe BRCA gene.
11. What is a flurophore?
12. Define immunoarray.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain classification of hosts for various diseases.





14. Write a short notes on different kinds of vectors.
15. Explain the different types of muscular dystrophy.
16. What is the molecular basis of Huntington's disease? Explain.
17. Give an account of genetic testing.
18. Explain the role of mitochondria in ancestry analysis.
19. Explain why mitochondria is considered as a semi autonomous organelle.
20. Discuss on the methods used in cancer detection.
21. How you can detect a Swine fever?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Write an essay on parasites whose vectors are arthropods and the disease caused by them.
23. Explain different types of chromosomal disorders.
24. Explain different techniques used for the diagnosis of chromosomal disorders.
25. Explain DNA typing.

(2×15=30)

