QP CODE: 25020939

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 Lieshmania.
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. Given 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 diffrent techniques used for the diagnosis of chromosomal disorders.

25. Expalin DNA typing.

(2×15=30)