

QP CODE: 22101133



Reg No :

Name :

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, APRIL 2022

Sixth Semester

B.Sc Biotechnology Model III

**Choice Based Core Course - BT6CBT03 - DISEASES AND DIAGNOSTIC
BIOTECHNOLOGY**

2017 Admission Onwards

86474379

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Different species of *Lieshmania* infecting man.
2. Give two examples of infectious diseases.
3. Name two triplet disorders with autosomal dominant inheritance.
4. Functions of CFTR protein.
5. Name the largest human gene.
6. Metion the principle of position independent strategies.
7. What is southern blot?
8. Explain Y-STR.
9. Give an example for SNP.
10. Explain the protein structure of BRCA 1.
11. What are the tips for the prevention of chikungunya?
12. Difference between direct & indirect ELISA.

(10×2=20)

Part B

*Answer any **six** questions.*

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





13. Write note on red water fever.
14. Write note on types of infectious diseases.
15. Comment on the role of dystrophin gene.
16. Write note on chromosomal disorders.
17. Explain genetic profiling.
18. How DNA family relationship is analysed? Explain.
19. Role of DNA fingerprinting in disputed paternity testing.
20. Discuss on the methods used in cancer detection.
21. Comment on immunoarray verses immunofluorescence.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Write in detail about the microbes.
23. Explain the molecular genetics of Sickle cell anaemia.
24. Explain the significance of PCR and LCR in disease diagnosis.
25. Explain the process of mitochondrial sequencing.

(2×15=30)

