



23105713

QP CODE: 23105713

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS,
MARCH 2023**

Sixth Semester

B.Sc Biotechnology Model III

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

2017 Admission Onwards

B1F3773C

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Define infection.
2. Exotoxins.
3. What is the functions of dystrophin?
4. What is 21st trisomy?
5. What is Amniocentesis?
6. Name the scientist who developed PCR.
7. Comment on the use of CGH.
8. Methods used in paternity testing.
9. Expand FRET.
10. Write the functions of tumor markers.
11. Applications of immunofluorescence.
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. Comment on different species of Plasmodium and the disease caused by them.
15. What are haemoglobinopathies? Mention its genetic back ground.
16. Write note on cystic fibrosis.
17. Write a short note on SNP.
18. Give a brief note on standard STR testing.
19. Applications of mitochondrial DNA sequencing.
20. Write a note on karyotype.
21. Comment on the application of RT-PCR in viral diseases.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Explain what is prions, disease caused by prions and its symptoms.
23. Explain different types of triplet disorders.
24. Explain how position of disease gene can be identified it?
25. Explain DNA typing.

(2×15=30)

