



21101314

QP CODE: 21101314

Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) EXAMINATION, APRIL 2021**

**Sixth Semester**

B.Sc Biotechnology Model III

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

2017 Admission Onwards

FA6535A9

Time: 3 Hours

Max. Marks : 80

**Part A**

*Answer any **ten** questions.*

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

1. What are inclusion bodies?
2. Liver rot disease.
3. Name an inherited blood disease.
4. What is the genetics of Down syndrome?
5. What is genetic testing?
6. Explain positional cloning.
7. Name a thermostable enzyme used in PCR.
8. Define DNA typing.
9. Give 2 methods for standard STR testing.
10. Applications of karyotyping.
11. Write notes on sandwich ELISA.
12. Define antibody microarray.

(10×2=20)

**Part B**

*Answer any **six** questions.*

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





13. Describe different types of parasites.
14. Explain the different methods of transmission of diseases.
15. Write note on Duchenne muscular dystrophy.
16. What is the molecular basis of Huntington's disease? Explain.
17. Explain comparative genome hybridization.
18. Explain the methods of mitochondrial DNA sequencing.
19. Give an account about genetic markers.
20. Give an account about tumor markers.
21. How you can detect a Swine fever?

(6×5=30)

### Part C

*Answer any **two** questions.*

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

22. Describe in detail the factors predisposing to microbial pathogenicity.
23. Explain molecular genetics of any two genetic disorders.
24. What is the principle of Southern blotting ? Explain with the help of labelled diagram.
25. Write an essay on disputed paternity testing and ancestry analysis.

(2×15=30)

