

QP CODE: 20100648



Reg No :

Name :

BSc DEGREE (CBCS) EXAMINATION, MARCH 2020

Sixth Semester

B.Sc Biotechnology Model III

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

2017 Admission Onwards

823BFC0D

Time: 3 Hours

Marks: 80

Part A

*Answer any **ten** questions.*

Each question carries 2 marks.

1. Comment on Endoparasite.
2. Digenetic parasite.
3. What is cooley's aneamia?
4. Give the sign and symptoms of Duchenne muscular dystrophy.
5. Comment on molecular testing of genetic disorders.
6. Comment on Taq polymerase.
7. What is DNA microarray?
8. Samples used in DNA typing.
9. Examples for samples which is used in paternity testing.
10. Define karyotype.
11. What is a flurophore?
12. Applications of immunoarrays.

(10×2=20)

Part B

*Answer any **six** questions.*

Each question carries 5 marks.

13. Write a short notes on different kinds of vectors.
14. Comment on whether the injecting dose and route of injection plays a role in virulence.





15. Give a brief note on myonic dystrophy.
16. Explain Alzheimer's disease.
17. Distinguish between position independent strategy and positional cloning.
18. Describe Y-STR testing.
19. Explain why mitochondria is considered as a semi autonomous organelle?
20. Explain the role of BRCA genes in breast cancer.
21. Comment on HIV.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. With the help of a suitable diagram explain the structure of a bacterial cell.
23. Explain different types of chromosomal disorders.
24. Explain significance of karyotyping analysis,banding FISH for diagnosis genetic disorders.
25. Describe in detail about SNP testing.

(2×15=30)

