

QP CODE: 24001181



Reg No :
Name :

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, MARCH 2024

Sixth Semester

B.Sc Biotechnology Model III

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

2017 Admission Onwards

29E1C8D8

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.
Each question carries 2 marks.*

1. Alteration of generation.
2. Short note on carrier organisms.
3. What is cooley's aneamia?
4. Describe the causes of Klinefelters syndrome.
5. Explain positional cloning.
6. Describe ligation chain reaction.
7. Expand FISH.
8. Give the basic concept of DNA profiling
9. Define forensic science.
10. Who discovered the gene BRCA2?
11. Comment on primary immunofluorescence.
12. Write the principle of scanning electron microscope.

(10×2=20)

Part B

*Answer any **six** questions.
Each question carries 5 marks.*

13. Explain classification of hosts for various diseases.
14. Write note on different species of Entamoeba and its diseases.





15. What is the molecular basis of Huntington's disease? Explain.
16. Explain Alzheimer's disease.
17. Write a short note on SNP.
18. Explain the role of mitochondria in ancestry analysis.
19. Explain the methods of mitochondrial DNA sequencing.
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. Describe in detail the factors predisposing to microbial pathogenicity.
23. Explain Molecular genetics of Duchenne muscular dystrophy.
24. Describe the various biotechnological tools used in diagnosis of genetic and chromosomal disorders.
25. Describe in detail about SNP testing.

(2×15=30)

