



QP CODE: 26019067



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026
Fourth Semester
M Sc BIOCHEMISTRY
Core Courses - BC010401 - CLINICAL BIOCHEMISTRY
2019 Admission Onwards
F062B01C

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Illustrate the uses of control charts in a clinical laboratory.
2. Explain the storage and processing of blood specimens.
3. What is Fouchet test? Explain its significance.
4. Explain alcohol stimulation test.
5. What is radioiodine turnover studies?
6. Explain classical galactosemia.
7. List the different types of hyperlipoproteinemia.
8. Recall the clinical features of Gout.
9. Explain the clinical importance of fetal blood sampling.
10. Identify the role of LDH in disease diagnosis.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Explain in detail about the auto analysers used in a clinical laboratory.
12. Explain para-aminohippurate clearance test.





13. Describe gamma glutamyl transferase enzyme.
14. Write a short note on autoimmune thyroid diseases.
15. Classify glycogen storage disorders.
16. Illustrate the development of coronary heart diseases after the occurrence of arteriosclerosis.
17. Explain the clinical features of hemoglobinopathies.
18. Explain the role of mRNA amplification in the diagnosis of thalassemia.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Elaborate the importance of quality control and explain how it can be maintained in clinical laboratories.
20. Classify renal function tests and explain the tests based on glomerular filtration.
21. Explain the causes, clinical manifestations and management of disorders of amino acid and protein metabolism.
22. Discuss the diagnosis of cystic fibrosis using PCR and mRNA amplification.

(2×5=10 weightage)

