



QP CODE: 25024334



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, APRIL 2025

Fourth Semester

M Sc BIOCHEMISTRY

CORE - BC010401 - CLINICAL BIOCHEMISTRY

2019 ADMISSION ONWARDS

3033231B

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What are the factors influencing quality control?
2. What are preanalytical variables? List the factors influencing preanalytical variables.
3. Explain the salient features of substances used for clearance tests. Give examples.
4. Write a note on filtration fraction.
5. Write a note on the classification of gastric function tests.
6. What are lipid storage disorders?
7. Explain the causes and clinical symptoms of hyperuricemia.
8. Define Phenylketonuria. Enlist the clinical features.
9. Explain how amniotic fluid used in the diagnosis of inborn errors of metabolism?
10. What is meant by iron load?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Elaborate on the processing of blood and urine samples for analysis.
12. Describe the tests for the estimation of serum bilirubin.
13. Give a detailed note on transaminase enzymes.
14. How radioiodine turnover studies help in the diagnosis and treatment of autoimmune thyroid diseases?
15. Distinguish between essential fructosuria and hereditary fructose intolerance.





16. Define fatty liver. Explain the causes, symptoms and management of fatty liver.
17. Explain the types and symptoms of hepatic porphyrias.
18. Explain western blotting in the diagnosis of AIDS.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Compare different types of autoanalysers and elaborate the working principle of continuous flow and discrete analysers.
20. Discuss thyroid function tests and its clinical significances.
21. Illustrate the different types, clinical manifestations and management of Diabetes Mellitus.
22. Explain tumor markers.

(2×5=10 weightage)

