F–1348	Sub. Code
	7MBC3C2

M.Sc. DEGREE EXAMINATION, APRIL 2024.

Third Semester

Biochemistry

MEDICAL BIOCHEMISTRY

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** the questions.

1. Give two examples for non-Functional enzymes.

2. Define 'Mole'.

3. Differentiate between gout and pseudogout.

4. Why is Cystinosis called as lysosomal storage disease?

5. What are the effects of galactosemia?

6. What is Diabetic coma?

7. What are ketone bodies?

8. What is Haemodialysis?

9. What is HbA1c? Mention the normal and abnormal levels of A1c.

10. Write a note on screening for sickle cell anaemia.

Part B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Which enzyme is used for diagnosis of pancreatitis? Explain.

Or

(b) Explain the factors that affect Quality control in clinical biochemistry.

12. (a) Write in detail on the pathophysiology of Fanconi syndrome.

Or

(b) What is gamma Globulinemia? Write down the causes and symptoms.

13. (a) Discuss on the types of Glycogen storage disease.

Or

(b) What are the causes of Nephritic syndrome? Write about the treatment of the disease.

14. (a) Write about the diagnostic importance of bile salt and uric acid in treating renal abnormalities.

Or

(b) Write a note on the qualitative analysis of urine and urinary sediments.

15. (a) Write a note on the diagnostic tests performed in CSF.

Or

(b) Describe in detail about the types of jaundice.

Part C

$(3 \times 10 = 30)$

Answer any **three** questions.

16. What are the benefits of automation in clinical laboratory?

17. What are the causes for Kwashiorkor and Marasmus? How can it be treated?

18. Explain the mechanism that contribute to the development of Fatty liver.

19. Write a note on the diagnostic importance of the constituents present in urine.

20. Mention the composition of amniotic fluid, its origin and the analysis done with the fluid.

———————