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CCFUP/5th Sem/BMLT/25(NEP)

2025

5th Semester Examination (CCFUP : NEP)

BMLT

Paper : MJ 10-T (Single Core Major)

[Clinical Biochemistry-2]

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *five* questions : $2 \times 5 = 10$

1. Write down the clinical significance of C-peptide.
2. Define Ketoacidosis.
3. What is the defect in phenylketonuria?
4. What is the function of Ceruloplasmin?
5. What is the principle of analysis of total bilirubin in serum?
6. What is the function of Ferritin?

P.T.O.

7. What is the purpose of arterial blood gas measurement.
8. Write down any two enzymatic markers of hepatic jaundice.

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. What are the isoenzymes of Lactate Dehydrogenase? Write down the principle of analysis of lactate dehydrogenase in serum. $3+2$
10. What are different types of jaundice? Write down the tests that are done to assess liver function. $1+4$
11. What is acidosis? What blood tests are done to analyse acidosis and alkalosis? What is the reference interval of serum bicarbonate? $2+2+1$
12. What are the isoenzymes of creatine phosphokinase? Describe the significance of this enzyme in cardiac diseases. $2+3$
13. What are the types of Diabetes Mellitus? What are the blood tests that are done to diagnose it? $2+3$
14. Explain the role of Leptin in obesity.

(3)



Group - C

Answer any *one* question : $10 \times 1 = 10$

15. Explain the principle of analysis of D-dimer? What is the role of D-dimer in diagnosis of Deep Vein thrombosis? What is the clinical significance of D-dimer in Covid patients? 3+4+3

16. Discuss the pathophysiology of NAFLD. Write the significance of C-peptide and TIBC measurement. 6+4
