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CCFUP/3rd Sem/BMLT/25(NEP)

2025

3rd Semester Examination (CCFUP : NEP)

BMLT

Paper : MJ 4-T (Single Core Major)

(Clinical Biochemistry)

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. Define Renal Glycosuria.

2. Which enzymes are raised in serum in case of any disease of Cardiac muscles?

3. What is the gauge of the needle usually used for phlebotomy of paediatric patients?

4. Write briefly the principle of Jaffe's method of Creatinine estimation.

5. Which Lipoprotein has the lowest density?

P.T.O.

( 2 )

6. What is the significance of Serum Alkaline Phosphatase (ALP)?

7. Define hypokalemia.

8. Define hyperchlorhydria.



### Group - B

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

9. Describe the patient preparation, procedure, and the interpretation of results for OGTT.  $1+3+1$

10. What precautions have to be taken in storage of the reagents for assessment of Liver enzymes?

11. What are the parameters that are tested to assess Lipid profile in serum? Write the reference interval of all of them.  $2+3$

12. Which are the parameters raised in serum in case of haemolysis of blood sample during collection? What are the precautions to be taken to avoid haemolysis of blood sample?  $2+3$

13. Discuss the procedure of any one gastric function test. What is achylia gastrica?  $4+1$

14. Define Microalbuminuria and explain its importance in the diagnosis of diabetic nephropathy.  $3+2$

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**Group - C**

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

15. What are the diagnostic markers of Acute Pancreatitis? If a patient is reporting to the hospital three days after onset of Pancreatitis, what biochemical test is to be performed to diagnose Pancreatitis? What is the reference interval of the these diagnostic markers? What is mean blood glucose? How do you detect it?

2+2+2+2+2

16. Write short notes on :

3+4+3

- (a) Significance of gastric pH
  - (b) Distinguish between conjugated and unconjugated bilirubin
  - (c) CK-MB test
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