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CCFUP/2nd Sem/BMLT/26(NEP)

2026

2nd Semester Examination (CCFUP : NEP)

BMLT

Paper Code : BMLMIN2

(Minor)

[Fundamental 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 : 2×5=10

1. Define albumin-globulin ratio.
2. Write the clinical significance of Alkaline Phosphatase (ALP).
3. Define essential amino acid with an example.
4. Differentiate between apoenzyme and co-enzymes.
5. Write the reference value of urea.
6. Give two examples of abnormal carbohydrate constituents of urine.

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7. Define Phospholipids with examples.
8. What are oligosaccharides? Give examples.

Group - B

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

9. Write the problems due to low sodium and potassium levels in blood. $3+2$
10. Describe the principle and interpretation of the Sulfosalicylic Acid (SSA) test for detecting proteinuria. $2+3$
11. Explain the chemical principle of the Glucose Oxidase-Peroxidase (GOD-POD) method of blood glucose determination. Why are sodium fluoride and potassium oxalate used during blood glucose sample collection? $3+2$
12. Explain the physiological conditions under which ketone bodies accumulate in urine. Write the chemical principle and step-by-step procedure of Rothera's test. $2+3$
13. Write the principle of serum amylase estimation with its clinical significance. $2+3$
14. Differentiate between serum iron and ferritin. Write the clinical conditions leading to Hyperferremia and Hypoferremia. $3+2$



(3)

Group - C

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

15. Write the classification of Enzyme. Briefly mention the mechanism of enzyme action. 5+5
16. Describe the metabolic pathway of ketogenesis during starvation or unmanaged diabetes mellitus. Write the quantitative assessment of plasma proteins. 6+4
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