

**2 0 2 3**  
**(NOVEMBER)**

## Biochemistry – III

**Full Marks: 80**

**Time: 3 hours**

*The figures in the margin indicate full marks for the questions*  
*Answer all questions*

**A. Briefly answer following questions:**

**(2X10=20)**

- 1) Define pH and buffers.
- 2) What are the indications for liver function test?
- 3) Beer Lambert's law.
- 4) What is exogenous water and endogenous water?
- 5) Function of Vitamin B1.
- 6) Principle of Rothera's test.
- 7) Mention few characteristics of an ideal absorbent used in chromatography.
- 8) Dehydration.
- 9) Mention few applications of enzymes with examples.
- 10) Functions of Sodium.

**B. Answer in short, any FOUR of the following:**

**(5X4=20)**

- 1) ELISA.
- 2) Urea Clearance test.
- 3) Write in brief about the examination of resting content.
- 4) Thin Layer Chromatography.
- 5) Importance of various serum enzymes in diagnosis of diseases.

*Turn over*

**C. Answer any FOUR of the following questions:**

**(10X4=40)**

- 1) Mention the indications of thyroid function test. Classify of thyroid function test and write in detail about Radioactive uptake studies. (2+3+5)
- 2) Define and Classify hormones. Discuss in detail about the hormones secreted by hypothalamus. (2+2+6)
- 3) Define and Classify vitamins. Discuss in detail about the source, RDA, Function and deficiency of fat-soluble vitamins. (3+7)
- 4) What is Electrophoresis? Mention different types of electrophoresis? Write in detail about Gel electrophoresis. (2+2+6)
- 5) Define Jaundice. Write down the types and causes of Jaundice. Tabulate the differential diagnosis of different types of Jaundice. (2+3+5)

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(SS/BMLT-II/ BCM-III/11-23)