

**B.Sc. IN MEDICAL LABORATORY
TECHNOLOGY (BMLT)**

Term-End Examination

December, 2015

**BAHI-012 : ORGANIZATION LABORATORY
MANAGEMENT AND APPLIED BIOCHEMISTRY**

Time : 3 hours

Maximum Marks : 70

Note : *Attempt any five questions. Question no. 6 is compulsory.*

1. (a) Define automation. **1+4+5=10**
(b) Describe the steps involved in a semi-auto analyser.
(c) Mention the advantages and disadvantages of automation.

2. (a) List four non-functional enzymes found in the blood. **4+2+4=10**
(b) What are the factors influencing enzyme activity ?
(c) Name the enzymes elevated in viral hepatitis and give their normal values.

3. (a) Name the plasma proteins. **2+4+4=10**
(b) Describe their functions.
(c) What is their clinical importance ?

4. (a) What is meant by acid - base balance ? $2+2+6=10$
(b) Name disease conditions where this is affected.
(c) What is the clinical importance ?
5. Describe in detail : $5+5=10$
(a) Parameters of check in Quality Control Management.
(b) Safety procedures essential to avoid hazards in laboratory.
6. Write short notes on any five of the following : $5 \times 6 = 30$
(a) Diagnostic application of enzymes.
(b) Transamination.
(c) Urea cycle.
(d) Maintaining inventory in a laboratory.
(e) Factors influencing enzyme activity.
(f) Haemoglobin A1C.
(g) Essential amino acids.
(h) Dry chemistry analysers.
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