B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BSCMLT)

Term-End Examination December, 2012

BAHI-005: CLINICAL BIOCHEMISTRY

<i>Time</i> : 3 H	Hours Maximum Marks : 70
PART-A	
1. Con	aplete the following: 2x10=20
(a)	is an example of an essential
	fatty acid (not synthesized in the body)
(b)	A sugar which is non reducing (does not
	reduce Benedict's reagent) is
(c)	Normal serum sodium level in adult male is
	mEq/L.
(d)	Major ketone body produced in blood is
	•
(e)	Normal range value of serum proteins
(0)	is gm/dl
(f)	The rapid rise of level of CPK (MB) enzyme
	is highly specific for early diagnosis of
(~)	In Control of
(g)	In Gout, there is increase of
/l _n \	level in patient's serum.
(h)	Normal ratio of serum enzymes SGOT and
(i)	SGPT is around
(i)	The main function of ribonucleic acid (RNA)
400	is the synthesis of
(j)	Muscle fatigue occurs due to the
	accumulation of acid.

PART- B

Answer *any three* questions. Each carries ten marks. 10x3=30

- 2. Differentiate between Gluconeogenesis and Glycogenesis. How is blood glucose regulated in the human body?
- **3.** Define and classify enzymes. How do they differ from coenzymes? Discuss the factors on which enzyme activity depends.
- 4. What is Gout? How is uric acid formed and metabolised in the body? Briefly describe the procedure of serum uric acid estimation.
- 5. What are minerals? Write clinical importance of copper, magnesium and Fluorine in the body.
- **6.** Enumerate important liver function tests. How do you estimate serum bilirubin? What is its clinical significance?

PART- C

- 7. Write short notes on *any four* of the following. Each carries five marks. 5x4=20
 - (a) Nucleosides and Nucleotides
 - (b) Glycosylated haemoglobin (HbA₁C) and its clinical significance
 - (c) Source and clinical importance of calcium in human body
 - (d) Lipoproteins and their significance
 - (e) Diagnostic importance of enzymes
 - (f) Iron metabolism