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Reg. No.....

Name.....

**B.Sc. MEDICAL LABORATORY TECHNOLOGY (M.L.T.) DEGREE
EXAMINATION, APRIL 2025**

Fourth Year

BIOCHEMISTRY – IV

(2008 Admission onwards – Last and Final Special Mercy Chance)

Time : Three Hours

Maximum : 100 Marks

Answer Sections A and B in separate answer books.

*Answer **all** questions.*

Draw diagram wherever necessary.

Section A

I. Answer to the following in one word sentence/word :

- (a) Gastrin is a hormone secreted by _____.
- (b) _____ is the main cause of Hepatitis
- (c) Respiratory acidosis is caused by _____.
- (d) Cirrhosis means _____.
- (e) Definition of buffer is _____.

(5 × 1 = 5)

II. Write briefly on :

- (a) Schilling test.
- (b) Metabolic acidosis.
- (c) Functions of Gastric juice and test for it.
- (d) Hyper thyroidism.
- (e) Measurement of estriol.

(5 × 3 = 15)





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III. Write short notes on :

- (a) Disorders in male and female due to gonadal functioning.
- (b) Diseases of liver.
- (c) Kidney function test.
- (d) Respiratory regulation of pH.

(4 × 5 = 20)

IV. Write about importance of sodium, potassium and calcium in metabolism and disorders associated with these minerals.

(10)

Section B

I. Answer to the following in one word sentence/word:

- (a) Quality control ensures _____.
- (b) _____ is a hormones produced by pituitary glands.
- (c) Genetic code can be defined as _____.
- (d) _____ is an example of variable.
- (e) Accuracy means _____.

(5 × 1 = 5)

II. Write briefly on :

- (a) Semi auto analyzer.
- (b) Human genome project.
- (c) DNA replication.
- (d) Centrifugal analyzer.
- (e) Determination of estrogen in plasma.

(5 × 3 = 15)





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III. Write briefly on :

- (a) rDNA technology.
- (b) Automation of clinical laboratory.
- (c) Transcription.
- (d) Continuous flow analyzers.

(4 × 5 = 20)

IV. Write an account on thyroid and pituitary hormones

(10)

