QP	Code: 202383	Reg . No

## Second Year M.Sc. MLT Degree Examinations November 2017 (Biochemistry)

PAPER – VI DIAGNOSTIC BIOCHEMISTRY, RECENT ADVANCES IN CLINICAL CHEMISTRY AND BIOSTATICS

Time: 3 hrs. Max. marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays: (10x10 = 100)

- Mention the composition of gastric juice. Explain any four gastric function tests with an emphasis on principle and clinical significance. (2+8)
- 2. Mention the various thyroid function tests. Give the reference intervals and explain the significance of assays of hormones in differential diagnosis of thyroid disorders. (2+8)
- 3. Explain the importance of serum amylase, urine amylase and serum lipase with emphasis on principles of assay methods, reference intervals and clinical significance
- Classify the liver function tests. Explain the tests based on excretory and detoxification functions of liver. (2+6+2)
- 5. What are acute phase proteins. Give examples. Explain the diagnostic importance of any three acute phase proteins. Add a note on assay methods for acute phase proteins.

(1+1+6+2)

- 6. Mention the causes, laboratory findings and compensatory mechanisms of metabolic acidosis and respiratory acidosis. Add a note on significance of anion gap. (4+4+2)
- 7. Mention the principles of assay methods for lead, lithium and digoxin in blood. What is the clinical significance of assays of these substances. (6+4)
- 8. Define and briefly explain: mean, median, mode and standard deviation. Name the statistical tests which analyze of significance and correlation. (6+4)
- 9. How is quality control serum prepared. Explain the concepts of internal quality control and external quality control. (2+4+4)
- 10. Explain the concept and procedure of evaluation of a method and method comparison

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