

2056
B. Voc. (Medical Lab Technology)
Sixth Semester
BMLT-604: Clinical Biochemistry - II

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Answer the following:-

- a) What is the importance of insulin tolerance test? Give the normal value of insulin tolerance test.
- b) Describe principles and applications automation in clinical biochemistry lab.
- c) What is meant by quality control in clinical investigations?
- d) What are the major components examined in Calculi? (4x2)

UNIT - I

- II. Describe various tests for gastric analysis. (8)
- III. Explain Glucose tolerance test and clearance test for renal function. (8)

UNIT - II

- IV. Describe the various tests for detailed examination of Sputum and Pleural fluid. Also give the significance of examination. (8)
- V. Explain in detail the examination of Bone marrow and CSF. What is the importance of examining the parameters of bone Marrow and CSF? (8)

UNIT - III

- VI. Explain the advanced techniques used in field of clinical biochemistry. Also describe their importance in clinical labs. (8)
- VII. Explain advanced techniques used in the field of clinical pathology. What future trends are expected in the same. (8)

UNIT - IV

- VIII. Explain the difference between clinically significant and clinically insignificant findings. Describe the sources of error in clinical findings. (8)
- IX. What are the various ways to monitor quality assurance programs to ensure the accuracy of laboratory results? Also describe assessment of results to initiate follow up testing. (8)