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MANIPAL UNIVERSITY SECOND YEAR B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2015

SUBJECT: CLINICAL BIOCHEMISTRY

Monday, June 15, 2015

Time: 10:00-13:00 Hrs.

Max. Marks: 80

- Answer ALL questions. Draw diagrams wherever necessary.
- 1A. Enumerate the panel of renal function tests. Describe clearance test in detail.
- 1B. Discuss the serum protein electrophoresis with its interpretation and clinical significance.
- 1C. Describe the mechanism of regulation of blood sugar level. Add a note on diabetes mellitus.

 $(10 \text{ marks} \times 3 = 30 \text{ marks})$

- 2. Write detailed notes on:
- 2A. Regulation of pH by renal mechanism
- 2B. Jaundice
- 2C. Cholesterol
- 2D. Posterior pituitary hormones
- 2E. Tumor markers

 $(6 \text{ marks} \times 5 = 30 \text{ marks})$

- 3. Write short notes on:
- 3A. Gout
- 3B. Potassium
- 3C. Metabolic acidosis
- 3D. Diabetic ketoacidosis
- 3E. ALP

 $(4 \text{ marks} \times 5 = 20 \text{ marks})$

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SECOND YEAR B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2015 SUBJECT: HAEMATOLOGY AND CLINICAL PATHOLOGY

Wednesday, June 17, 2015

Time: 10:00-13:00 Hrs.

Max. Marks: 80

Answer ALL questions. Draw diagrams wherever necessary.

- 1A. Name the tests done on urine in a patient with jaundice. Add a note on these tests with their clinical significance.
- 1B. Describe the structure of hemoglobin. Mention the different methods of hemoglobin estimation. Write in brief the standard method of hemoglobin estimation.
- 1C. Discuss principle, procedure, normal values and clinical significance of ESR.

 $(10 \text{ marks} \times 3 = 30 \text{ marks})$

2. Write detailed notes on:

- 2A. Constituents of blood
- 2B. Skin puncture
- 2C. CML
- 2D. Factor VIII assay
- 2E. Reticulocyte count

 $(6 \text{ marks} \times 5 = 30 \text{ marks})$

3. Write short notes on:

- 3A. Benedict's test
- 3B. Casts in urine
- 3C. Serum and plasma
- 3D. Hemoglobin degradation
- 3E. Clot retraction

 $(4 \text{ marks} \times 5 = 20 \text{ marks})$



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MANIPAL UNIVERSITY SECOND YEAR B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2015 SUBJECT: IMMUNOHAEMATOLOGY

Friday, June 19, 2015

Time: 10:00-11.30 Hrs.

Max. Marks: 40

- Answer ALL the questions. Draw diagram wherever necessary.
- 1. List the test done under compatibility testing. Explain about coomb's cross match.

(4+6 = 10 marks)

- 2. Write detailed notes on:
- 2A. Adverse donor reaction
- 2B. Antigens and antibodies of Rh group
- 2C. Preparation and Indication of FFP
- 2D. IgG
- 2E. DCT

 $(6 \text{ marks} \times 5 = 30 \text{ marks})$