

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

SECOND YEAR B.Sc. M.L.T. DEGREE EXAMINATION – AUGUST 2006**SUBJECT: CLINICAL BIOCHEMISTRY**

Monday, August 07, 2006

Time: 3 Hrs.

Max. Marks: 80

✍ Answer all questions. Draw diagrams if necessary.

1. Discuss in detail about the regulation of blood glucose in the body. Explain the effects of hormones in maintaining the glucose level in the blood.
2. Define enzyme. Discuss about the enzymes indicating hepatocellular damage.
3. What are the important blood buffer systems in the body? Discuss the role of different buffer systems in the regulation of blood pH.

(10×3 = 30 marks)

4. Write detailed notes on:

(5×7 = 35 marks)

- 4A. Intravenous GTT.
- 4B. Lipid profile.
- 4C. Multiple myeloma.
- 4D. Hyperkalemia.
- 4E. Respiratory regulation of pH.
- 4F. Isoenzymes.
- 4G. Ketone bodies.

5. Write short notes on:

(3×5 = 15 marks)

- 5A. Hb S
- 5B. Testosterone.
- 5C. Acid phosphatase.
- 5D. Metabolic alkalosis.
- 5E. Glucagon.



MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

SECOND YEAR B.Sc. M.L.T. DEGREE EXAMINATION – AUGUST 2006**SUBJECT: HAEMATOLOGY AND CLINICAL PATHOLOGY**

Tuesday, August 08, 2006

Time: 3 Hrs.

Max. Marks: 80

Answer all questions.

1. Discuss the normal coagulation cascade with the help of flow chart. Discuss the principle and procedure of test to check the efficiency of extrinsic pathway.

(7+(2+6) = 15 marks)

2. Define ESR. Mention various methods of ESR estimation. Discuss the factors affecting ESR.

(2+3+7 = 12 marks)

3. Discuss the principle, procedure and interpretation of the following tests.

3A. Osmotic fragility test.

3B. LE cell phenomenon.

3C. Bazedine test.

(6×3 = 18 marks)

4. Write short notes on:

4A. Preparation of Leishman stain.

4B. Urine findings in nephrotic syndrome.

4C. CSF findings in pyogenic meningitis.

4D. Stool findings in amoebic dysentery.

(5×4 = 20 marks)

5. Write short notes on:

5A. Preparation and uses of Buffy coat.

5B. Reticulocyte count.

5C. Principle of electric impedance in cell counters.

(5×3 = 15 marks)



Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

SECOND YEAR B.Sc. M.L.T. DEGREE EXAMINATION – AUGUST 2006

SUBJECT: IMMUNOHAEMATOLOGY AND BLOOD BANKING

Wednesday, August 09, 2006

Time: 1½ Hrs.

Max. Marks: 40

✍ Answer all questions.

1. Describe the complications of blood transfusion and its prevention.

(10 marks)

2. Write short note on:

2A. Plasmapheresis.

2B. Lewis blood group system.

2C. Crossmatching.

2D. Autoantibodies.

2E. Storage of blood.

(5×6 = 30 marks)

