Reg. No.

MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2009

SUBJECT: CLINICAL BIOCHEMISTRY

Monday, June 01, 2009

Time: 10:00-13:00 Hrs.

Max. Marks: 80

- Answer all questions. Draw diagrams if necessary.
- What are the indications for LFT? Discuss LFT briefly.
- Define enzyme. What are the properties of enzymes? Discuss about enzymes indicating the hepatocellular damage.
- 3. Discuss the chemistry and functions of thyroid hormones.

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

- Write detailed notes on:
- 4A. LDH.
- 4B. Lipid profile.
- 4C. Serum Protein Electrophoresis.
- 4D. Vanden Bergh reaction.
- 4E. Intravenous GTT.
- 4F. Respiratory regulation of pH.
- 4G. Creatinine clearance test.

 $(5 \times 7 = 35 \text{ marks})$

- Write short notes on:
- 5A. Metabolic acidosis.
- 5B. CEA.
- 5C. HbS.
- 5D. HDL Cholesterol.
- 5E. Testosterone.

 $(3 \times 5 = 15 \text{ marks})$

Reg. No.

MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2009

SUBJECT: HAEMATOLOGY AND CLINICAL PATHOLOGY

Tuesday, June 02, 2009

Define and classify anemia. Describe the etiology, clinical features and laboratory diagnosis
of hemolytic anemias.

(5+10 = 15 marks)

Max. Marks: 80

What are the normal constituents of urine? Describe the various types and methods of collection of urine samples. Add a note on urine preservatives.

(3+8+4 = 15 marks)

3. Write short notes on:

Time: 10:00-13:00 Hrs.

- FAB classification and laboratory diagnosis of acute myeloid leukemia.
 ESR.
- 3C. Semen analysis.
- 3D. RBC indices and their clinical significance.
- 3E. Automation in hematology.

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

- 4. Describe the principle, procedure and interpretation of the following tests:
- 4A. Prothrombin time.
- 4B. Osmotic fragility.
- 4C. Benedicts test in urine analysis.
- 4D. LE cell preparation.

 $(5\times4=20 \text{ marks})$



Reg. No.					
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MANIPAL UNIVERSITY SECOND YEAR B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2009

SUBJECT: IMMUNOHAEMATOLOGY

Wednesday, June 03, 2009

Time: 10:00-11.30 Hrs. Max. Marks: 40

Answer ALL the questions.

Describe ABO blood group system in detail.

(10 marks)

- Write short notes on:
- Platelet rich plasma.
- 2B. Autoantibodies.
- 2C. Adverse donor reactions.
- Pre transfusion tests.
- Antigen-antibody reactions.

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

