

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

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

Wednesday, June 07, 2006

Time: 3 Hrs.

Max. Marks: 80

✍ **Answer all questions. Draw diagrams if necessary.**

1. Discuss the chemistry and functions of anterior pituitary hormones. (10 marks)
2. Define enzyme. Discuss about the enzymes indicating myocardial infarction. (10 marks)
3. What are the indications for liver function test? Discuss LFT briefly. (10 marks)
4. Write detailed notes on:
 - 4A. Salting out.
 - 4B. Rothera's test.
 - 4C. HDL cholesterol.
 - 4D. Jaundice.
 - 4E. Sickle cell trait.
 - 4F. Metabolic acidosis.
 - 4G. Inulin clearance test.(5×7 = 35 marks)
5. Write short notes on:
 - 5A. Bence Jones proteins.
 - 5B. ALT.
 - 5C. Beta HCG.
 - 5D. Classification of lipids.
 - 5E. Testosterone.(3×5 = 15 marks)



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

Thursday, June 08, 2006

Time: 3 Hrs.

Max. Marks: 80

Answer all questions.

1A. Discuss the normal functions of kidney.

1B. Write in detail about the physical examination of urine.

(5+10 = 15 marks)

2A. Name any three special tests used in the detection of haemolytic anemia.

2B. Describe any one test on the basis of principle, procedure and interpretation.

(3+4+5+3 = 15 marks)

3. Write short notes on:

(6×5 = 30 marks)

3A. Describe the various anticoagulants used in haematological tests with special emphasis on their uses.

3B. Write a note on cleaning of laboratory glasswares.

3C. Describe the structure of RBC membrane.

3D. Sucrose lysis test.

3E. Benedicts test

4. Short notes:

(5×4 = 20 marks)

4A. Write a note on laboratory waste disposal.

4B. i) List the RBC indices.

ii) Write briefly about any two indices with a special mention on their significance.

4C. i) What is APTT?

ii) Give the procedure and its interpretation.

4D. Write a note on the microscopic examination of sputum.



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

SUBJECT: IMMUNOHAEMATOLOGY AND BLOOD BANKING

Friday, June 09, 2006

Time: 1½ Hrs.

Max. Marks: 40

✍ Answer all questions.

1. Write in detail about the organization and administration of blood bank.

(10 marks)

2. Write short note on:

2A. Rh blood group

2B. Platelet antigen

2C. Indirect coombs test

2D. CDE Nomenclature

2E. Complications of blood transfusion.

(6×5 = 30 marks)

