

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

SECOND YEAR B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2005**SUBJECT: CLINICAL BIOCHEMISTRY**

Wednesday, June 08, 2005

Time: 3 Hrs.

Max. Marks: 80

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

1. Write an essay about the tumour markers. Discuss about their role in clinical chemistry.
(10 marks)
2. Discuss Creatinine clearance test and its significance in renal impairment.
(10 marks)
3. Discuss the chemistry and functions of anterior pituitary hormones.
(10 marks)
4. Write detailed notes on:
 - 4A. Biuret method.
 - 4B. SGOT and SGPT.
 - 4C. Plasma proteins.
 - 4D. Hyperkalaemia.
 - 4E. Glycosylated Hb.
 - 4F. Gout.
 - 4G. Insulin.(5×7 = 35 marks)
5. Write short notes on:
 - 5A. Benedict's test.
 - 5B. Progesterone.
 - 5C. Acidosis.
 - 5D. HbS.
 - 5E. Glucagon.(3×5 = 15 marks)



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SECOND YEAR B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2005**SUBJECT: HAEMATOLOGY AND CLINICAL PATHOLOGY**

Thursday, June 09, 2005

Time: 3 Hrs.

Max. Marks: 80

- ✍ **Answer all questions.**
✍ **Draw labeled diagrams and flowcharts wherever necessary.**

1. Define and classify Leukemias. Discuss the laboratory diagnosis of Chronic Myeloid Leukemia.

(2+5+8 = 15 marks)

2. Write briefly on methods of urine collection. Discuss the principle, procedure and interpretation of any 2 chemical tests for urine.

(4+(1+2+2)+(1+2+2) = 14 marks)

3. Write short notes on:

- 3A. Sickling test.
3B. Normal morphology of WBC.
3C. CSF findings in Pyogenic Meningitis.
3D. Reticulocyte count.
3E. Peripheral smear findings in Iron deficiency anemia.
3F. Calculation and significance of MCV.
3G. Clot Retraction Test.

(5×7 = 35 marks)

4. Write briefly on:

- 4A. Coagulation Cascade.
4B. Microscopic Examination of semen.

(8×2 = 16 marks)



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SECOND YEAR B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2005

SUBJECT: IMMUNOHAEMATOLOGY AND BLOOD BANKING

Friday, June 10, 2005

Time: 1½ Hrs.

Max. Marks: 40

✍ **Answer all questions.**

1. Enumerate the disease transmitted by blood transfusion. Discuss the diagnostic tests to detect HIV infection.

(10 marks)

2. Write short notes on:

2A. Indirect coombs test.

2B. HDN.

2C. Exchange transfusion.

2D. Antigens in ABH blood group system.

2E. Selection of blood donors.

(6×5 = 30 marks)

