Reg. No.										

MANIPAL UNIVERSITY

FOURTH SEMESTER B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: BLT 202: HEMATOLOGICAL DISORDERS

(2015 SCHEME)

Friday, June 02, 2017

Time: 10.00-13.00 Hrs. Max. Marks: 80

✍ **Answer ALL questions.**

1A. Define and classify anemia based on morphology. Discuss megaloblastic anemia due to folic acid deficiency.

1B. Discuss classification, clinical symptoms and lab diagnosis of chronic myeloid leukemia.

1C. Discuss clinical symptoms, pathophysiology and lab diagnosis of Hemophilia A.

(10 marks × 3 = 30 marks)

2. **Write detailed notes on:**

2A. Sickling test

2B. Periodic acid schiff stain (PAS)

2C. Clinical symptoms and lab diagnosis of AML

2D. Platelet functional disorder

2E. Leukemoid reaction

(6 marks × 5 = 30 marks)

3. **Write short notes on:**

3A. Lymphocytosis

3B. Hematological findings in thalassemia

3C. Principle and interpretation of HAM's test

3D. Lab diagnosis of DIC

3E. Fagot cells

(4 marks × 5 = 20 marks)

Reg. No.										

MANIPAL UNIVERSITY

FOURTH SEMESTER B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: BLT 206: CLINICAL BIOCHEMISTRY II

(2015 SCHEME)

Monday, June 05, 2017

Time: 10.00-13.00 Hrs. Max. Marks: 80

✍ **Answer ALL questions.**

1A. What are the indications for liver function tests? Discuss standard LFT.

1B. Define and classify hormones. Write a detailed note on posterior pituitary hormones.

1C. Discuss creatinine clearance test and its significance in renal impairment

(10 marks × 3 = 30 marks)

2. **Write detailed notes on:**

2A. Discuss the steps involved in bilirubin excretion

2B. Disorders of growth hormone

2C. Oncofoetal Antigens

2D. Sodium Potassium Pump

2E. Respiratory regulation of blood pH

(6 marks × 5 = 30 marks)

3. **Write short notes on:**

3A. Method of estimation and normal level for enzyme marker used to detect the obstructive jaundice

3B. Hyperthyroidiism

3C. Hemoglobin F

3D. Acid Phosphatase

3E. Metabolic Alkalosis

(4 marks × 5 = 20 marks)

Reg. No.										

MANIPAL UNIVERSITY

FOURTH SEMESTER B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: BLT 210: TRANSFUSION MEDICINE

(2015 SCHEME)

Wednesday, June 07, 2017

Time: 10.00-11.30 Hrs. Max. Marks: 40

✍ **Answer ALL questions.**

1. Explain in detail about the non-haemolytic transfusion reaction.

(10 marks)

2A. Automated techniques in blood group serology.
2B. Procedure for blood collection for donor sample.
2C. Types of autologous blood donation.
2D. Laboratory screening of hepatitis.

(5 marks × 4 = 20 marks)

3A. Irradiated blood components
3B. Rejections and Deferrals
3C. VDRL test
3D. QC for platelet concentrate
3E. Biosafety guidelines in blood bank

(2 marks × 5 = 10 marks)