

Question Paper

Exam Date & Time: 22-Apr-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. MLT DEGREE EXAMINATION - APRIL 2022
SUBJECT: MMLT 601 - HEMATOLOGY AND CLINICAL PATHOLOGY
(SPECIALIZATION: MICROBIOLOGY AND IMMUNOLOGY)
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Write test under coagulation profile with normal range. Discuss principle, procedure and graphical interpretation of Platelet aggregation study. (20)
(5+2+5+8 = 20 Marks)
- 2) Classify hemolytic anemia. Discuss in detail molecular defect, clinical symptoms and lab diagnosis of β paroxysmal nocturnal hemoglobinuria. (20)
(5+3+5+7 = 20 Marks)
- 3A) Compare and contrast AML and ALL (10)
- 3B) Discuss clinical symptoms and Lab diagnosis of CML (10)
- 3C) Explain briefly the different Pregnancy Test with its Advantages and Disadvantages. (10)
- 3D) Explain briefly the microscopic examination of Pleural fluid. (10)
- 4A) Schilling test (5)
- 4B) Paroxysmal nocturnal hemoglobinuria (5)
- 4C) Crystals in urine with clinical significance (5)
- 4D) Leukocyte Alkaline phosphatase (LAP) score (5)

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Question Paper

Exam Date & Time: 23-Apr-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. MLT DEGREE EXAMINATION - APRIL 2022
SUBJECT: MMLT 605 - CLINICAL BIOCHEMISTRY PART - I
(SPECIALIZATION: MICROBIOLOGY AND IMMUNOLOGY)
(2018 SCHEME)

Answer ALL the questions.
Draw diagrams if necessary.

Marks: 100

Duration: 180 mins.

- 1) Define and classify jaundice. Explain various tests for liver function based on its role in bilirubin metabolism. Add a note on Prothrombin time. (20)
(5+12+3 = 20 marks)
- 2) Discuss various chemical hazards in a clinical laboratory. Add a note on laboratory safety practices in a clinical chemistry lab. (20)
(10+10 = 20 marks)

3. Write detailed notes on the following:

- 3A) Discuss the patient preparation, procedure and interpretation of oral glucose tolerance test. (10)
- 3B) Explain renal tubular function tests in detail. (10)
- 3C) Enumerate diagnostic enzymes. Discuss cardiac enzymes. (10)
- 3D) Explain the various stimulation tests for gastric function. (10)

4. Write short notes on the following:

- 4A) Describe briefly on Lipid profile. (5)
- 4B) Discuss the Quality control procedures for preanalytical variable. (5)
- 4C) Write a brief essay on discrete analyzers. (5)
- 4D) Explain histamine stimulation test. (5)

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