

M.Sc. Medical Laboratory Technology (MLT) (Semester - I)
January – 2018 Examinations

Time: 3 Hrs.

[Max. Marks: 100]

Paper – I
Clinical Biochemistry, Biomedical Techniques
& Laboratory Management-I

Your answer should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.
(Use separate answer booklet for section A & B)

Section – A
Clinical Biochemistry (50 Marks)
Q.P. Code: MMLT - 105

LONG ESSAY

1 X 20 = 20 Marks

1. Explain in detail regulation of blood glucose Homeostasis.

SHORT ESSAY

5X 6= 30 Marks

2. GTT.
3. Classification of proteins.
4. Lipid profile.
5. Diagnostic importance of enzymes.
6. Polysaccharides.

Section – B (50 Marks)
Biomedical Techniques & Laboratory Management
Q.P. Code: MMLT - 106
(Use separate answer booklet for section B)

LONG ESSAY

1 X 20 = 20 Marks

1. Define electrophoresis. Name the different types. Explain gel electrophoresis in detail.

SHORT ESSAY

5X 6= 30 Marks

2. Paper chromatography.
3. Photometry.
4. Explain laboratory safety measures.
5. Applications of radio isotopes
6. Explain professional ethics for laboratory personnels.

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Paper – II

Clinical Microbiology and Immunology-I

Your answer should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary

(Use separate answer booklet for section A & B)

Section – A

Clinical Microbiology
Q.P. Code: MMLT - 109

(50 Marks)

LONG ESSAY

1 X 20 = 20 Marks

1. Define infection. Write a note on different sources and modes of transmission of infections with examples.

SHORT ESSAY

5X 6= 30 Marks

2. Hospital acquired bacteraemia.
3. Polymerase chain reaction.
4. Describe different antibiotic sensitivity testing methods.
5. Standards of air quality in operation theatres.
6. Bacillary dysentery.

Section – B

Immunology

Q.P. Code: MMLT - 110

(Use separate answer booklet for section A & B)

(50 Marks)

LONG ESSAY

1 X 20 = 20 Marks

1. Enumerate Antigen-antibody reactions. Describe the principle, types and clinical applications of agglutination reactions with examples.

SHORT ESSAY

5X 6= 30 Marks

2. Zoonotic bacterial infections.
3. Central lymphoid organs.
4. Monoclonal antibodies.
5. Biological properties of complement.
6. Type III hypersensitivity reactions.

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Paper – III

Haematology, Clinical Pathology & Immunopathology-I

Your answer should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

(Use separate answer booklet for section A & B)

Section – A

Haematology

(50 Marks)

Q.P. Code: MMLT - 107

LONG ESSAY

1 X 20 = 20 Marks

1. Define anaemia. Classify haemolytic anaemias. Describe the general and special lab investigations in diagnosis of haemolytic anaemia.

SHORT ESSAY

5X 6= 30 Marks

2. FAB classification of acute leukemias.
3. Coomb's test.
4. Physical examination of urine.
5. Haemoparasites.
6. Packed cell volume (PCV)

Section – B

(50 Marks)

Clinical Pathology and Immunopathology

Q.P. Code: MMLT - 108

(Use separate answer booklet for section B)

LONG ESSAY

1 X 20 = 20 Marks

1. Describe the etiopathogenesis of AIDS. Add a note on opportunistic infections in AIDS.

SHORT ESSAY

5X 6= 30 Marks

2. Type 1 hypersensitivity reaction – Definition, Patho-physiology, examples and laboratory investigations.
3. Idiopathic thrombocytopenic purpura (ITP)- Definition and Patho-physiology and investigations
4. Describe immune complex reactions.
5. Morphology and function of cells of the immune system.
6. Sjogren's syndrome. Auto Allergic disease.

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