Rajiv Gandhi University of Health Sciences

II Year M.Sc. (MLT) Degree Examination - Oct/Nov 2014

[Time: 3 Hours] [Max. Marks: 100]

Haematology and Blood Transfusion – II

Paper – I

(Revised Scheme – 2)

Q.P. CODE: 9818

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

LONG ESSAY **2 X 20 = 40 Marks**

1. Discuss clinical features, diagnosis and bone marrow findings in a case of idiopathic thrombocytopenic purpura.
2. Define disseminated intravascular coagulation. Discuss the etiopathogenesis and laboratory diagnosis of DIC.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Anticoagulants used in Haematology
4. Automation in Haematology
5. Thrombotic workup
6. Antiphospholipid antibody syndrome
7. Bernard Soullier Syndrome
8. Hemophilia A and B

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Rajiv Gandhi University of Health Sciences

II Year M.Sc. (MLT) Degree Examination - Oct/Nov 2014

Time: 3 Hours] [Max. Marks: 100]

Microbiology – II

Paper – II (Virology, Mycology and Parasitology)

(Revised Scheme – 2)

Q.P. CODE: 9817

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

LONG ESSAY **2 X 20 = 40 Marks**

1. Describe the morphology, pathogenesis, laboratory diagnosis of Rabies virus. Add a note on immunoprophylaxis against Rabies.
2. Classify cestodes. Discuss the life cycle, pathogenesis and laboratory diagnosis of Echinococcus granulosus.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Laboratory diagnosis of malaria
4. Extraintestinal amoebiasis
5. Serological markers of Hepatitis B Virus
6. Clinical manifestations and laboratory diagnosis of Herpes Simplex Virus
7. Mycetoma
8. Laboratory diagnosis of Aspergillosis

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Rajiv Gandhi University of Health Sciences

II Year M.Sc. (MLT) Degree Examination - Oct/Nov 2014

[Time: 3 Hours] [Max. Marks: 100]

Microbiology – II

Paper – I (Systematic Bacteriology, Applied Microbiology and Immunology)

(Revised Scheme – 2)

Q.P. CODE: 9816

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

LONG ESSAY **2 X 20 = 40 Marks**

1. Discuss the pathogenesis and laboratory diagnosis of tuberculosis.
2. Define and classify hypersensitivity. Discuss in detail the mechanism of Type I hypersensitivity.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Laboratory diagnosis of cholera
4. Diarrhogenic E. coli
5. Virulence factors of Staphylococcus aureus
6. Mechanism of Innate immunity
7. Laboratory diagnosis of acute meningitis
8. Quality control in microbiology laboratory

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Rajiv Gandhi University of Health Sciences

II Year M.Sc. (MLT) Degree Examination - Oct/Nov 2014

Time: 3 Hours] [Max. Marks: 100]

BIOCHEMISTRY – II

Paper – II (Revised Scheme – 2)

Q.P. CODE: 9815

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

2 X 20 = 40 Marks

LONG ESSAY

1. Glycogen metabolism.
2. Discuss in detail the metabolism of calcium. Add a note on hormonal regulation.

6 X 10 = 60 Marks

SHORT ESSAY

3. Metabolism of cholesterol
4. Specialized products of phenylalanine and tyrosine
5. Write sources, RDA, Functions and disorders of
   a. Vitamin B12, B. Folic acid C. Niacin D. Vitamin C
6. Urea cycle
7. GTT and its significance
8. Importance of enzymes in diagnosis of liver and cardiac diseases

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Rajiv Gandhi University of Health Sciences

II Year M.Sc. (MLT) Degree Examination - Oct/Nov 2014

Time: 3 Hours] [Max. Marks: 100]

BIOCHEMISTRY – II

Paper - I (Revised Scheme – 2)

Q.P. CODE: 9814

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Section A and section B are to be written in same Answer Book

Section A - Clinical Biochemistry [50 marks]

LONG ESSAY **1 X 20 = 20 Marks**

1. Explain new born screening.

SHORT ESSAY **3 X 10 = 30 Marks**

2. Explain the biliary diseases and lab analysis of gall stones
3. Hormonal assay of thyroid gland
4. Osmolality and its measurement

Section B – Laboratory Management [50 marks]

LONG ESSAY **1 X 20 = 20 Marks**

5. Working of clinical biochemistry laboratory

SHORT ESSAY **3 X 10 = 30 Marks**

6. Pre analytical variables
7. Inborn errors of metabolism
8. Drugs of abuse

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Rajiv Gandhi University of Health Sciences, Karnataka

Second Year M.Sc (MLT) Degree Examination – Oct/Nov 2014

Time: Three Hours **Max. Marks: 100 Marks**

HAEMATOLOGY & BLOOD TRANSFUSION - II
PAPER – II

Q.P. CODE: 9679

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary. Answer all questions

LONG ESSAYS **2 x 20 = 40 Marks**

1. Describe stem cell processing, storage and transplantation.
2. Describe about donor selection, registration, collection and adverse donor reactions.

SHORT ESSAYS **6 x 10 = 60 Marks**

3. Du red cells
4. Types of grouping tests
5. FFP
6. DCT and ICT
7. Disposal of waste in Blood Bank
8. Plasmapheresis and Plateletpheresis

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Rajiv Gandhi University of Health Sciences

Second Year M.Sc. (MLT) Degree Examination – Oct/Nov 2014

[Time: 3 Hours] [Max. Marks: 100]

HAEMATOLOGY & BLOOD TRANSFUSION - II

Paper - I

Q.P. CODE : 9678

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY **2 X 20 = 40 Marks**

1. Compare the FAB and WHO classification of acute myeloblastic leukemias. Write the clinical features and laboratory diagnosis of acute myeloblastic leukaemias.
2. Discuss macrocytic anaemias and laboratory findings in megaloblastic anaemia.

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SHORT ESSAY **6X10= 60 Marks**

3. Discuss Thalassemias in detail.
4. Classify and discuss Myelodysplastic syndrome.
5. Quality control in hematology
6. Describe the pathophysiology, clinical features and laboratory findings of disseminated intravascular coagulation.
7. Discuss hereditary spherocytosis in detail. Write the procedure of osmotic fragility test.
8. Discuss the clinical features and laboratory investigation of anti-phospholipid antibody syndrome.

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