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Rajiv Gandhi University of Health Sciences

First Year M.Sc. (MLT) Degree Examination - May 2013

[Time: 3 Hours] [Max. Marks: 10

BIOCHEMISTRY - I

Q.P. CODE : 9671

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. Define and classify carbohydrates and add note on isomerism properties shown by monosaccharide's in detail.

SHORT ESSAY **5 X 6 = 30 Marks**

2. Classify proteins depending on their function with examples
3. Describe the role of Enzymes in Diagnosis of Disorders
4. Liver Function Tests (LFT)
5. Describe the composition & analysis of cerebrospinal fluid
6. Classify lipids with examples. Write a note on functions of lipids

Section B - Biomedical Techniques & Lab. Management [50 marks]

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

7. What is chromatography Write a note on principle and procedure of HPLC

SHORT ESSAY **5 X 6 = 30 Marks**

8. Agarose gel Electrophoresis
9. Oxidative Phosphorylation
10. External & Internal Quality Control
11. Procedure for Disposal of Biomedical Waste
12. Ultracentrifuge & its Applications

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Rajiv Gandhi University of Health Sciences

First Year M. Sc. (MLT) Degree Examination - May 2013

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

MICROBIOLOGY - I

Q.P. CODE: 9672

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 Microbiology [50 marks]

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

1. Discuss the life cycle pathogenesis, laboratory diagnosis of Plasmodium falciparum

SHORT ESSAY **5 X 6 = 30 Marks**

2. Moist heat sterilization
3. Laboratory diagnosis of enteric fever
4. Cryptococcosis
5. Oncogenic viruses
6. Antibiotic sensitivity test

Section B – Immunology and Molecular Biology [50 marks]

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

7. Define complement. Describe the complement pathways and biological effects of complement mediators

SHORT ESSAY **5 X 6 = 30 Marks**

8. Recombinant vaccines
9. DNA finger printing
10. Properties of Antigen
11. Types of mutation
12. Mechanism of innate immunity

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

HAEMATOLOGY AND BLOOD TRANSFUSTION - I

Q.P. CODE: 9673

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 - Haematology and Clinical Pathology [50 Marks]

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

1. Describe in detail disseminated intravascular co-agulation. Discuss the clinical features and its investigation

SHORT ESSAY **5 X 6 = 30 Marks**

2. Cleaning of glasswares
3. Tests for HbF
4. Tests for G-6PD deficiency
5. Augmented Histamine test and Hollander's test
6. Multiple myeloma

Section B - Immunology and Medical Genetics [50 Marks]

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

7. Describe adverse blood Transfusion reactions. How will you investigate a case of blood Transfusion reaction

SHORT ESSAY **5 X 6 = 30 Marks**

8. Warm antibody and cold antibody disease
9. Immune complex reactions
10. Techniques of detection of barr body
11. Mention inborn errors of metabolism and describe any one
12. Describe sjogren's syndrome and multiple sclerosis

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