Rajiv Gandhi University of Health Sciences

II Year M.Sc. (MLT) Degree Examination - 24-Aug-2020

[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. Write an essay on Liver function tests.

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

2. Write in detail about New born screening.
3. Explain the role of GIT hormones and enzymes in digestion. Describe the methods of evaluation of malabsorption and diarrheal syndromes.
4. Discuss about cardiac markers.

Section B – Laboratory Management [50 marks]

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

5. Write an essay on clinical biochemistry laboratory automation.

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

6. Requirements, classification and characteristics of POCT analyzer.
7. Internal and external quality control
8. Explain about clinical utility of therapeutic drug monitoring.

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II Year M.Sc. (MLT) Degree Examination - 26-Aug-2020

[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.

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

1. Describe the sources, RDA, functions, metabolis m and disease states of Iron.
2. Classify Lipoproteins. Explain lipoprotein metabolism in detail.

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

3. Free radicals and antioxidants
4. Vitamin D
5. Inborn errors of carbohydrate metabolis m and their diagnosis
6. Fluorometry
7. Diagnostic enzy mology
8. Separation of serum proteins by slide agarose gel electrophoresis

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Rajiv Gandhi University of Health Sciences

II Year M.Sc. (MLT) Degree Examination - 28-Aug-2020

[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. Name the causative agent of Syphilis. Explain in detail about pathogenesis and laboratory diagnosis of Syphilis.
2. Define and classify immunity. Explain in detail about Acquired immunity.

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

3. Laboratory diagnosis of gonorrhea
4. Laboratory diagnosis of typhoid fever
5. Laboratory diagnosis of pulmonary tuberculosis
6. Type I hypersensitivity
7. Sa mple collection and laboratory diagnosis of Urinary tract infections
8. Antimicrobial sensitivity testing by Stokes method

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II Year M.Sc. (MLT) Degree Examination - 31-Aug-2020

[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. Classify hepatitis viruses. Describe the morphology, pathogenicity and laboratory diagnosis of Hepatitis B virus.
2. Describe the life cycle, pathogenicity and laboratory diagnosis of Plasmodium falciparum.

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

3. Life cycle and pathogenesis of Wuchereria bancrofti
4. Mycetoma
5. Laboratory diagnosis for fungal infections
6. Life cycle and pathogenicity of Taenia solium
7. Lab diagnosis of HIV
8. Prophylaxis of Polio virus

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Rajiv Gandhi University of Health Sciences

II Year M.Sc. (MLT) Degree Examination - 28-Aug-2020

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

II Year M.Sc. (MLT) Degree Examination - 02-Sep-2020

[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. Classify haemorrhagic disorders. Discuss in detail Acquired Haemorrhagic Vascular Disorders.
2. Discuss clinical features, etiopathogenesis and laboratory findings of DIC.

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

3. Explain the principle, working and indications of flow cytometry.
4. Classify coagulation disorders and explain in detail urea solubility test.
5. Antithrombin III deficiency
6. Hemophilia A
7. ITP
8. Quality control in hematology laboratory

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II Year M.Sc. (MLT) Degree Examination - 04-Sep-2020

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

Haematology and Blood Transfusion – II

Paper – II

(Revised Scheme – 2)

Q.P. CODE: 9819

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

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

1. What are the different blood components prepared in blood bank. Discuss the indications for giving platelet concentrate. Give a note on method of preparation of donor, preparation and storage of platelet concentrate.
2. Discuss in detail non infectious blood transfusion reactions, their investigation and management.

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

3. Give a brief note on future trends in blood banking
4. Discuss the different types of compatibility testing
5. Hemolytic disease of new born
6. Post donation care
7. Subgroups in ABO blood group system
8. Transfusion transmitted disease

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