(A DEEMED TO BE UNIVERSITY)

Post Graduate Degree Examination - May - 2013

Time: 3 Hrs.

[Max. Marks : 100]

M.D BIOCHEMISTRY

PAPER - I

Q.P Code:1301



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

LONG ESSAY

 $2 \times 20 = 40 \text{ Marks}$

- 1. Describe the primary structure of human insulin. Enumerate the steps to determine the primary structure of proteins.
- 2. Describe the principles and applications of spectrophotometry.

SHORT ESSAY

 $6 \times 10 = 60 \text{ Marks}$

- 3. Phospholipids.
- 4. Membrance proteins.
- 5. Henderson Hasslebalch equation.
- 6. Southern Blotting.
- 7. Stabilizing forces in protein molecules.
- 8. Apoptosis.

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M.D BIOCHEMISTRY

PAPER - II

O.P Code:1302

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

LONG ESSAY

 $2 \times 20 = 40 \text{ Marks}$

- 1. Describe homeostasis of Blood Glucose.
- 2. Describe the synthesis of thyroid hormones. Add a note on subclinical hypothyroidism.

SHORT ESSAY

 $6 \times 10 = 60 \text{ Marks}$

- 3. Metabolic fate of amino acid nitrogen in the body.
- 4. Bile salts and Bile Pigments.
- 5. Sphingolipids and its associated clinical disorders.
- 6. Reverse transcriptase and its significance.
- 7. cDNA
- 8. Lipoproteins.

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M.D BIOCHEMISTRY

PAPER - III

Q.P Code:1303

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

LONG ESSAY

 $2 \times 20 = 40 \text{ Marks}$

- 1. List various mechanisms used for regulation of enzyme activity with the help of a diagram. Write in detail about short term regulatory mechanisms with suitable examples.
- 2. Nutritional significance of vegetarian diet in india and dietary management of ischaemic heart disease.

SHORT ESSAY

 $6 \times 10 = 60 \text{ Marks}$

- 3. Metabolism in platelets and endothelium.
- 4. Biochemistry of red blood cell membrane and list intrinsic causes of haemolytic anaemias.
- 5. Identification of nature of inhibitors.
- 6. Hyper vitaminosis and vitamin dependent syndromes.
- 7. Minerals that function as prosthetic groups of enzymes.
- 8. Quality of proteins and it's assessment.

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M.D BIOCHEMISTRY

PAPER - IV

Q.P Code:1304

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

 $2 \times 20 = 40 \text{ Marks}$

- 1. Discuss various abnormal hemoglobin. Explain thalassemias in detail.
- 2. Cardiac markers.

SHORT ESSAY

 $6 \times 10 = 60 \text{ Marks}$

- 3. Oncogenes
- 4. Insulin resistance.
- 5. Hypothyroidism.
- 6. Quality control programs.
- 7. Lipid profile.
- 8. Renal function tests.