Post Graduate Degree Examination – JUNE 2016

Time: Three Hours

Max. Marks: 100 Marks

MD BIOCHEMISTRY

(Bio-organic chemistry, biophysical chemistry and biochemical techniques)

PAPER- I (Revised Scheme)

Q. P. CODE: 7315
Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 20 = 40 Marks

- 1. Describe the blood buffers. Explain the interpretation of arterial blood gas analysis in various acid base disorders.
- 2. Explain structure function relationship of proteins with suitable examples.

SHORT ESSAYS

6 x 10 = 60 Marks

- Explain the principle and applications of immunoelectrophoresis.
- 4. Explain the principle and applications of western blot technique.
- 5. Ultra-centrifugation principle and applications
- 6. Ion selective electrodes
- 7. High pressure liquid chromatography
- 8. Applications of radioactive isotopes in diagnosis

[Time: 3 Hours]

[Max. Marks: 100]

BIOCHEMISTRY

PAPER - II (Revised Scheme)

Q.P. CODE: 7316

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

LONG ESSAY

2 X 20 = 40 Marks

- Describe Eukaryotic protein biosynthesis. Add a note on the inhibitors. 1.
- 2. Discuss regulation of blood glucose level in detail

SHORT ESSAY

6 X 10 = 60 Marks

- 3. Metabolic fate of Glycine
- 4. Significance of HMP shunt
- Important products from tyrosine 5.
- Mutations types and effects 6.
- 7. Metabolism of Adipose tissue
- B-oxidation of saturated 16 Carbon fatty acid 8.



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M.D. Degree Examination – JULY 2016

[Time: 3 Hours]

[Max. Marks: 100]

BIOCHEMISTRY

PAPER - III (Revised Scheme)

Q.P. CODE: 7317

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY

2 X 20 = 40 Marks

- Describe metabolism of calcium and various factors influencing its homeostasis. Add a note on calmodulin.
- 2. Describe the structure, synthesis of hemoglobin.

SHORT ESSAY

6 X 10 = 60 Marks

- 3. Enzyme inhibitions: Mechanism and application of any two.
- 4. Wilson's disease.
- 5. Balanced diet.
- 6. Glycemic index.
- 7. Biotrasformation.
- 8. Name different types of collagen and enumerate any three disorders of collagen maturation.

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M.D. Degree Examination – JULY 2016

[Time: 3 Hours]

[Max. Marks: 100]

BIOCHEMISTRY

PAPER - IV (Revised Scheme)

Q.P. CODE: 7318

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

- Describe the various molecular changes leading to atherosclerosis. Explain the risk assessment and biochemical basis of the management of such patients.
- 2. Classify and explain the different types of Proteinurias. Add a note on the newer methods of estimation of Glomerular function.

SHORT ESSAYS

6 X 10 = 60 Marks

- Lactic acidosis.
- 4. Human leucocyte antigens and association with diseases.
- 5. Lysosomal storage diseases.
- 6. Biochemical basis of hypertension.
- 7. Diagnostic enzymes in hepato biliary diseases.
- 8. Criteria of selection of assay procedure.

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