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Rajiv Gandhi University of Health Sciences, Karnataka Post Graduate Degree Examination - MAY 2017

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

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

- 1. Explain the structure function relationship of haemoglobin. Add a note on related disorders.
- 2. What is human genome project? Describe the medical applications of human genome sequence information.

SHORT ESSAYS

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

- 3. Eicosanoids and their importance
- 4. Principle and applications of gene therapy in medicine
- 5. Ion selective electrodes
- 6. Role of radioisotopes in medicine
- 7. Principle and applications of ion exchange chromatography
- 8. Write the principle and applications of ELISA



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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination - MAY 2017

Time: Three Hours

Max. Marks: 100 Marks

MD BIOCHEMISTRY

(Intermediary metabolism and biochemical genetics)

PAPER- II

(Revised Scheme)

Q. P. CODE: 7316

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

LONG ESSAYS

2 x 20 = 40 Marks

- 1. Explain glycogen metabolism and its related disorders.
- 2. Explain various methods to study intermediary metabolism.

SHORT ESSAYS

6 x 10 = 60 Marks

- 3. Blood glucose regulation.
- 4. Purine catabolism and Hyperuricemia
- 5. Phenylketonuria and the methods of its detection
- 6. Explain the formation of various specialised products of glycine.
- 7. DNA repair mechanisms
- 8. Reverse transcriptase



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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - <<>>

[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 ESSAYS

2 X 20 = 40 Marks

- Enunciate the principles of Michaelis Menten Kinetics of Enzyme action. Derive a linear form of the Michaelis Menten equation to obtain the Lineweaver-Burk Plot. Explain the utility of such a plot.
- 2. Describe the absorption, functional roles, deficiency and toxicity manifestations of Calcium. How is plasma calcium level regulated?

SHORT ESSAYS

6 X 10 = 60 Marks

- 3. Biochemical aspects of Coagulation.
- 4. Role of enzymes in the respiratory chain.
- 5. Dietary fibre.
- 6. Role of Zinc in health and disease.
- 7. Evaluation of quality of dietary proteins.
- 8. Oxidoreductases.

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Rajiv Gandhi University of Health Sciences, Karnataka Post Graduate Degree Examination – JUNE 2017

Time: Three Hours

Max. Marks: 100 Marks

MD BIOCHEMISTRY (Clinical Biochemistry) PAPER- IV (Revised Scheme) Q. P. CODE: 7318

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

LONG ESSAYS

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

- How will you biochemically evaluate a patient with anaemia?
- 2. Explain in detail the biochemical evaluation of renal function.

SHORT ESSAYS

6 x 10 = 60 Marks

- 3. Write briefly on biochemical findings in thalassemia.
- 4. Briefly explain thyroid function tests.
- 5. Monoclonal antibodies briefly explain application of immunological techniques.
- Classify porphyrias with clinical features.
- 7. Explain various mechanisms of conversion of proto-oncogenes to oncogenes with examples.
- 8. Lipoprotein (a).
