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# Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination - APRIL/MAY 2015

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. Explain the process of DNA sequencing with its applications
- 2. Describe the different levels of structural organisation of proteins.

SHORT ESSAYS

6 x 10 = 60 Marks

- Explain the structure and function of biologically important peptides
- 4. Describe the structure and functions of Mucopolysaccharides
- 5. Explain the principle and applications of HPLC in medicine
- 6. Blotting techniques
- Isoelectric focussing
- 8. Write the principle and applications of Enzyme linked immunosorbent assay (ELISA).

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## Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - MAY 2015

[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

- 1. Discuss Glycogen metabolism in detail. Add a note on glycogen storagen disorders
- Describe the metabolism of sulphur containing amino acids and explain in brief the disorders associated with their metabolism.

### SHORT ESSAY

6 X 10 = 60 Marks

- Genetic code and its characteristics
- 4. Important products obtained from Tryptophan
- 5. Catabolism of Pyrimidine-
- Cholesterol transport and its clinical significance
- 7. Post translational modification of proteins
- Electron transport chain

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### Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination - MAY 2015

Time: Three Hours

Max. Marks: 100 Marks

MD BIOCHEMISTRY

(Enzymes, Nutrition and specialized tissues)

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

- Describe in detail the process of signal transduction.
- Describe the requirement, sources, metabolic functions and deficiency manifestations of thiamine, nicotinic acid, pyridoxine and biotin.

### SHORT ESSAYS

6 x 10 = 60 Marks

- 3. Specific dynamic action of foodstuff.
- 4. Nitrogen balance.
- Adaptive changes associated with starvation.
- Allosteric enzymes.
- Neurotransmitters.
- 8. Total parenteral nutrition.

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# Rajiv Gandhi University of Health Sciences, Karnataka

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. Answer all questions

### LONG ESSAYS

2 x 20 = 40 Marks

- Give an account of heme catabolism. What are porphyrias?
- Describe the metabolism of catacholamines. Add a note on the diagnostic value of VMA estimation

### SHORT ESSAYS

6 x 10 = 60 Marks

- Lipoprotein (a).
- 4. Metabolic acidosis.
- Hypercalcemia.
- 6. Oncogenes and tumour suppressor genes.
- 7. Antioxidants.
- 8. Hyperuricemia.

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