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Rajiv Gandhi University of Health Sciences, Karnataka

First Phase MBBS Degree Examination – DECEMBER 2015

Time: Three Hours

Max. Marks: 100 Marks

BIOCHEMISTRY (RS2 & RS3)

QP Code: 1079 – Paper I (Max.Marks:50)

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

Use separate answer books for section A and Section B

LONG ESSAYS

1 x 10 = 10 Marks

1. Classify enzymes giving an example with the reaction catalysed.

SHORT ESSAYS

5 x 5 = 25 Marks

2. Describe the digestion and absorption of lipids.
3. Discuss phenylketonuria under i) enzyme defect. ii) Manifestation. iii) Diagnostic test.
4. What are mucopolysaccharides. Give their importance with examples.
5. Coenzyme form of Vitamin B₁₂ and its biochemical functions
6. Describe one carbon metabolism. What is its significance?

SHORT ANSWERS

5 x 3 = 15 Marks

7. Compare and contrast Starch and Glycogen.
8. Essential fatty acids
9. Transport across cell membrane.
10. Melatonin.
11. Polyamines.

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BIOCHEMISTRY (RS2 & RS3)

QP Code: 1080 – Paper II (Max.Marks:50)

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

Use separate answer books for section A and Section B

LONG ESSAYS

1 x 10 = 10 Marks

1. Describe the synthesis of DNA. Write a note on replication of DNA.

SHORT ESSAYS

5 x 5 = 25 Marks

2. What is the difference between endonuclease and restriction endonuclease? Give **two** examples for endonuclease.
3. What are oncogenes? Discuss two tumor markers and their clinical application.
4. Diagnostic enzymes used in the assessment of different liver functions.
5. Respiratory alkalosis
6. How is uric acid formed in the body? What is Gout? What is the treatment? Explain the basis for the treatment.

SHORT ANSWERS

5 x 3 = 15 Marks

7. Serum electrophoresis.
8. Tumour markers
9. Hb as buffering agent.
10. Vitamin K functions and requirement
11. Point Mutation with 2 examples.
