

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - JUNE 2016

Time: Three Hours

Max. Marks: 50 Marks

Biochemistry – Paper I (RS2 & RS3)

Q.P. CODE: 1079

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

(Note: Both QP Codes 1079 and 1080 are to be, answered within total duration of three hours)

(Use separate Answer books for QP Code 1079 & 1080)

LONG ESSAYS

1 x 10 = 10 Marks

1. Give an account of Cholesterol biosynthesis with its regulation. Add a note on Atherosclerosis.

SHORT ESSAYS

5 x 5 = 25 Marks

2. What are Uncouplers? Mention the Uncouplers of Oxidative Phosphorylation.
3. Describe Tryptophan metabolism.
4. Define Glycosaminoglycans. Describe its biomedical importance.
5. Isoenzymes
6. Describe Glycogenolysis. How it is regulated?

SHORT ANSWERS

5 x 3 = 15 Marks

7. Biochemical changes in Starvation
8. Competitive inhibition of Enzyme activity
9. Rappaport Leubering cycle
10. Laboratory diagnosis for Hypothyroidism
11. Non-enzymatic Antioxidants

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Biochemistry – Paper II (RS2 & RS3)

Q.P. CODE: 1080

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

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(Use separate Answer books for QP Code 1079 & 1080)

LONG ESSAYS

1 x 10 = 10 Marks

1. Describe the replication of DNA in Eukaryotes. Mention its inhibitors.

SHORT ESSAYS

5 x 5 = 25 Marks

2. Recombinant DNA Technology and its applications.
3. What are Buffers? Explain the Plasma Buffers in maintaining Acid Base balance.
4. What is Methemoglobin? How it is formed? Mention the causes for Methemoglobinemia. How it is detected?
5. What are Restriction Endonucleases? Give any two examples with their biomedical importance.
6. Describe how Bilirubin is metabolised in the body. Write the normal values of Serum bilirubin.

SHORT ANSWERS

5 x 3 = 15 Marks

7. Balanced Diet
8. Reference values
9. Plasma proteins
10. Tests of Renal Distal Tubular function
11. Specific Dynamic Action
