

Rajiv Gandhi University of Health Sciences, Karnataka
First Phase MBBS Degree Examination – OCT-2017

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. Describe the reactions of glycolysis indicating the enzymes. Add a note on net yield of ATP under aerobic and anaerobic conditions.

SHORT ESSAYS

5 x 5 = 25 Marks

2. Describe the fate and formation of glycine. List **four** compounds formed from glycine.
3. What are isoenzymes? Explain the clinical significance giving **two** examples.
4. What are nitrogen-producing substances in the body? Explain how they are excreted from the body.
5. Describe the fluid mosaic model of membrane structure.
6. Name the ring structure present in cholesterol. Write the key regulatory step in the synthesis of cholesterol. Name **four** compounds derived from cholesterol.

SHORT ANSWERS

5 x 3 = 15 Marks

7. Detoxification.
8. Chemiosmotic hypothesis.
9. Von Gierkes disease.
10. Multi enzyme complex.
11. Rappaport-Leubring cycle.

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MBBS Phase – I Degree Examination - OCT-2017

Time: Three Hours

Max. Marks: 50 Marks

Biochemistry – Paper II (RS2 & RS3)

Q.P. CODE: 1080

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. What are the sources, functions, deficiency manifestations and daily-recommended allowance of Thiamine?

SHORT ESSAYS

5 x 5 = 25 Marks

2. Define Point Mutation. Explain the effects of Point Mutation.
3. Briefly explain the Lac Operon concept.
4. Discuss the features of Genetic Code.
5. Discuss the regulation of Water by Rennin-Angiotensin system.
6. What is Wilson's disease? State the cause and the treatment policy.

SHORT ANSWERS

5 x 3 = 15 Marks

7. Hypoalbuminemia
8. What are DNA probes? Mention the types of DNA probes.
9. Describe how Plasma Proteins are separated in the Clinical laboratory.
10. Discuss the nutritional role of Milk and Dairy products.
11. Discuss the role of Carbonic Anhydrase in the Acid Base regulation.
