

Rajiv Gandhi University of Health Sciences

First Year B.Sc. (Nursing) (Basic) Degree Examination – October 2007

[Time: 3 Hours]

[Max. Marks: 80]

PHYSIOLOGY AND BIOCHEMISTRY (Revised Scheme)

Your answer shall be specific to question asked. Draw neat and labelled diagrams wherever necessary.

Use separate answer books for section A and section B.

QP Code: 1677 - Section A - PHYSIOLOGY [40 Marks]

LONG ESSAY (ANSWER ANY ONE)

1 x 10 = 10 marks

1. Describe the RL blood group system and the consequences of RL incompatibility.
2. Describe the sliding filament mechanism of muscle contraction.

SHORT ESSAY (ANSWER ANY FOUR)

4 x 5 = 20 marks

3. Describe the primary taste sensations.
4. Describe the actions of thyroxine.
5. Describe the process of glomerular filtration.
6. Explain the conducting tissues of heart.
7. Describe the factors maintain arterial blood pressure.

SHORT ANSWERS

5 x 2 = 10 marks

8. Functions of ADH
9. Enumerate the functions of platelets.
10. Define reflex action.
11. Name the types of hypoxia.
12. Function of large intestine.

QP Code: 1678 - Section B - BIOCHEMISTRY [40 Marks]

Use separate answer book

LONG ESSAY (ANSWER ANY ONE)

1 x 10 = 10 marks

1. Write the reaction sequences of glycolysis. Add a note on its energetics, both under aerobic and anaerobic conditions.
2. Describe the renal function test.

SHORT ESSAY (ANSWER ANY FOUR)

4 x 5 = 20 marks

3. Classify proteins based on their functions.
4. Respiratory alkalosis
5. Digestion of lipids
6. Name ketone bodies. Write about Ketogenesis.
7. Creatinine clearance test

SHORT ANSWERS

5 x 2 = 10 marks

8. Name the coenzyme form of riboflavin and niacin
9. Serum enzyme markers in myocardial infarction.
10. Functions of vitamin K.
11. Write the normal blood level of a) Urea b) Creatinine c) Potassium d) Calcium.
12. What are essential fatty acids? Name them.

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