

Rajiv Gandhi University of Health Sciences

First Year B.Sc. (Nursing) (Basic) Degree Examination

[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. Classify hypoxia. Describe them with suitable examples
2. Classify sensory receptors. Explain the properties of receptors

SHORT ESSAY (ANSWER ANY FOUR)

4 x 5 = 20 marks

3. Explain the structure of a cell and the functions of organelles present in it
4. List the functions of blood
5. What is resting membrane potential? Explain its ionic basis
6. Heart sounds
7. Explain the mechanism for heat loss and gain by the body

SHORT ANSWERS

5 x 2 = 10 marks

8. Name the ascending tracts and sensations carried by them
9. Mention the functions of liver
10. Mention the names of male sex hormone and female sex hormone
11. Name the hormones that helps in calcium balance
12. Mention the functions of cerebellum

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

Use separate answer book

LONG ESSAY (ANSWER ANY ONE)

1 x 10 = 10 marks

1. Describe the various mechanisms which regulate blood glucose levels
2. Give the sources, functions, deficiency manifestations and RDA of Vitamin D

SHORT ESSAY (ANSWER ANY FOUR)

4 x 5 = 20 marks

3. Functions of Lipoproteins
4. Digestion of proteins
5. Substances formed from cholesterol
6. Biochemical role of Vitamin B1
7. Creatinine clearance test

SHORT ANSWERS

5 x 2 = 10 marks

8. Pellagra
9. Normal serum levels of cholesterol and potassium
10. Essential fatty acids
11. Name ONE each: homopolysachharide, heteropolysachharide, phosphosholipid and a steroid
12. Give two peptide hormones and their importance

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