

Rajiv Gandhi University of Health Sciences

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

- Describe the ovarian cycle. Write any two tests that detect ovulation.
- Name the divisions of cerebellum. Explain the role of cerebellum in the regulation of posture and voluntary movement.

SHORT ESSAY (ANSWER ANY FOUR)

4 x 5 = 20 marks

- Mention the events of cardiac cycle.
- Name the plasma proteins and write their functions.
- Write the principle of pregnancy diagnosis tests. Explain the immunological test.
- Describe the functions of middle ear.
- Describe the functions of saliva

SHORT ANSWERS

5 x 2 = 10 marks

- Intrauterine contraceptive devices (IUCDS)
- Starling's law of heart.
- Respiratory dead space.
- Milk ejection reflex.
- Myopia.

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

Use separate answer book

LONG ESSAY (ANSWER ANY ONE)

1 x 10 = 10 marks

- Mention rich sources and RDA of vitamin A. Discuss in detail about its functions and deficiency manifestations.
- Write the reactions of citric acid cycle. Add a note on the importance of this pathway.

SHORT ESSAY (ANSWER ANY FOUR)

4 x 5 = 20 marks

- Classify proteins based on their functions.
- Name bile salts. Write about its functions.
- Metabolic acidosis.
- Sucrose.
- Absorption of glucose in the intestine.

SHORT ANSWERS

5 x 2 = 10 marks

- Iso electric Ph.
- Name any four organic constituents of urine.
- Scurvy
- Name the test done to detect the presence of reducing substances in the urine. Write the principle of the test.
- Write the normal ranges of the following a) Serum urea b) Serum Creatinine c) Serum sodium d) Serum potassium.
