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First year B.Sc. Nursing (PC) Degree Examination - August 2010

Time: Three Hours Max. Marks: 75 Marks

BIOCHEMISTRY & BIOPHYSICS (RS-3 & RS-4)

Q.P. CODE: 1739& 1740

four answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary

Use separate answer books for section A and section B

Q.P. Code: 1739 - Section A - BIOCHEMISTRY (38 Marks)

LONG ESSAYS (Answer any One)

 $1 \times 10 = 10 \text{ Mark}$

- 1. What are enzymes? Outline their classification giving an example
- 2. Give an account of the digestion and absorption of proteins

SHORT ESSAYS (Answer any Four)

 $4 \times 5 = 20 \text{ Mark}$

- 3. Functions and distribution of water in the body
- 4. Enzymes in the diagnosis of myocardial infarction
- 5. Absorption of glucose tolerance test
- 6. Urea cycle
- 7. Kepoproteins

SHORT ANSWERS $4 \times 2 = 8 \text{ Mark}$

- 8. Substrate level phosphorylation with one example
- 9. Importance of uronic acid pathway
- 10. Normal levels of albumin and cholesterol in serum
- 11. Two inhibitors of the electron transport chain with their site of action

Q.P. Code: 1740 - Section B - BIOPHYSICS (37 Marks)

Use separate answer book

LONG ESSAYS (Answer any One)

 $1 \times 9 = 9 \text{ Mark}$

- 1. What is Stable Isotope and Radio Isotope? Name any two methods of preparation of Radio Isotope and their application in medical practice
- 2. What is the normal audio frequency range of normal human ear? Explain the relation betwee frequency, velocity and wavelength. Write a note on Audiometry

SHORT ESSAYS (Answer any Four)

 $4 \times 5 = 20 \text{ Marl}$

- 3. State and explain the Newton's laws of motion
- 4. Define velocity, Acceleration, and Acceleration due to Gravity. Mention their units
- 5. Explain the principle, construction and working of an Autoclave
- 6. Write a note on use of X-rays in clinical practice
- 7. Name the defects of vision. How they are correcterd?

SHORT ANSWERS8. Why ice floats on the surface of water?

 $4 \times 2 = 8 Marl$

- 8. Why ice floats on the surface of water? Explain
- 9. Gravity affects circulation of blood. Explain
- 10. What are the uses of ultrasonic waves?
- 11. Steam burn is more injurious than that due to boiling water. Explain
