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I year B.Sc. Nursing (PC) Degree Examination - Aug / Sep 2011

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. Explain the various factors affecting the enzyme activities
- 2. Define glucose tolerance test. Describe oral glucose tolerance test. Add a note on glycosuria

SHORT ESSAYS (Answer any Four)

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

- 3. Describe the steps involved in the formation of uric acid
- 4. Diagnostic applications of serum enzymes
- 5. Describe the digestion and absorption of proteins
- 6. Discuss water balance
- 7. Functions of lipoproteins

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

- 8. Lysozomes
- 9. Hyperglycemia
- 10. Write the normal range of (a) Serum cholesterol (b) Serum calcium
- 11. Vongierke's disease

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 are X-rays? How are they produced. List the properties and uses of X rays in medicine
- 2. Explain the term current, voltage and resistance. Mention their units and write a note on ohm law

SHORT ESSAYS (Answer any Four)

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

- 3. What are the defects of vision? How are they corrected
- 4. Explain the difference between conduction, convection and radiation
- 5. Write a note on cardiac pacemaker
- 6. What are the applications of gravity in nursing
- 7. Explain the working principle of a sphygmomanometer with diagram

SHORT ANSWERS

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

- 8. Explain velocity and acceleration
- 9. What are the principles of traction
- 10. Convert 40 degree celcius to corresponding temperature in Kelvin
- 11. Why woolen clothes are preferred in winter
