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I year B.Sc. Nursing (PC) Degree Examination – Feb / Mar 2012

Time: Three Hours Max. Marks: 75 Marks

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

O.P. CODE: 1739 & 1740

four answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessar Use separate answer books for section A and section B

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

LONG ESSAYS (Answer any One)

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

- Mention the normal Random blood sugar levels. Discuss the hormonal regulation of blood glucos
- 2. Discuss the biosynthesis of fatty acids

SHORT ESSAYS (Answer any Four)

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

- **Phospholipids**
- 4. Essential aminoacids
- 5. Structure and functions of t- RNA
- 6. Glucose tolerance test (GTT)
- 7. Factors affecting enzyme activity

SHORT ANSWERS

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

- 8. Micelle
- 9. Endoplasmic reticulum
- 10. Hypoglycemia
- 11. Give the normal serum levels of (a) Urea (b) Creatinine

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

Use separate answer book

LONG ESSAYS (Answer any One)

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

- Define contre of gravity? Describe the application of gravity in nursing
- 2. Describe the biological effects of light. Explain any two applications of principles of light nursing

SHORT ESSAYS (Answer any Four)

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

- Explain the forces of the body
- 4. How the body temperature is regulated? Explain
- 5. What are eye defects? How they are corrected
- 6. Explain vocalization and hearing
- 7. Write notes on electricity and human body

SHORT ANSWERS

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

- 8. Define density and specific gravity
- 9. Distinguish between atmospheric pressure and hydrostatic pressure
- 10. Define electrical resistance and write its unit
- What are alpha and beta particles
