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First year B.Sc. Nursing (PC) Degree Examination – Feb/March 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 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. Discuss the formation of Glucose form lactate
- 2. Name the ketone bodies. Discuss ketogenesis and ketolysis

SHORT ESSAYS (Answer any Four)

- 3. Hormonal regulation of blood glucose levels
- 4. Diagnostically important enzymes
- 5. Digestion of fats
- 6. Discuss the regulatory mechanism of water balance
- 7. Discuss uric acid formation

SHORT ANSWERS

- 8. Glycosuria
- 9. Functions of albumin
- 10. Ribosomes
- 11. Give the normal serum levels of (a) Sodium (b) Potassium

Q.P. Code: 1740 – Section B – BIOPHYSICS (37 Marks) Use separate answer book

LONG ESSAYS (Answer any One)

- 1. Discuss the application of pressure in nursing
- 2. What is the principle of ECG? Explain how ECG is taken and tracings are interpreted

SHORT ESSAYS (Answer any Four)

- 3. What are the applications of gravity in nursing? Explain any two application
- 4. What is osmosis? Explain osmotic pressure
- 5. What is noise pollution? How it can be prevented
- 6. Define frequency and wavelength obtain the relation between energy, frequency and wave lengt of light
- 7. What is pacemaker? Explain its application

SHORT ANSWERS

- 8. Define uniform velocity and acceleration
- 9. What are systolic and diastolic
- 10. Define electric current and election potential
- 11. What is defibrillation

4 x 2 = 8 Marl

4 x 2 = 8 Marl

1 x 10 = 10 Marl

4 x 5 = 20 Marl

4 x 5 = 20 Mark

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 $1 \times 9 = 9$ Mark

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