Reg.	No):	 	 	 	 	 _

First Year Post Basic B.Sc Nursing Examinations October 2018

Biochemistry & Biophysics (2016 Scheme)

Time: 3 Hours Total Marks: 75

- Answer all questions.
- Draw diagram wherever necessary
- Write section A and section B in separate answer books (32 pages). Do not mix up questions from section A and section B.

QP Code: 113011 Section A – Biochemistry Marks: 40

Short Essays: (2x7=14)

- 1. Describe the steps of glycolysis.
- 2. Describe the reactions of urea cycle.

Short Notes: (2x5=10)

- 3. Glucose tolerance test
- 4. Digestion and absorption of proteins

Answer briefly: (4x4=16)

- 5. Functions of albumin
- 6. Essential fatty acids
- 7. Lactose intolerance
- 8. Mitochondria

QP Code: 114011 Section B - Biophysics Marks: 35

Short Essays: (3x7=21)

- 1. Define voltage, current and resistance with their units. Explain Ohm's law. (4+3)
- 2. Define ultrasound. Mention its types. Give biomedical application of ultrasound. (1+1+5)
- Define heat and temperature. Explain the applications of heat in medical field. (1+1+5)

Short Notes: (2x4=8)

- 4. What is meant by lever system. Explain the types of lever system.
- 5. Explain different radiation dose and their units

Answer Briefly: (2x3=6)

- 6. Define velocity and acceleration. Give their units.
- 7. Convert the temperature 40 degree Celsius to Fahrenheit scale
