



**RD-020107**

Seat No. \_\_\_\_\_

**First Year Post Basic B. Sc. (Nursing) Examination**

**February - 2019**

**Paper-III : Biochemistry & Biophysics**

Time : **3 Hours**]

[Total Marks : **75**

**Instructions :**

1. All sections are **compulsory**.
2. Write each section in **separate** answer book.
3. Draw neat and labelled diagrams whenever necessary.

**SECTION – I (Bio-Chemistry) Marks : 38**

**1 Long Essay : (any one) 15**

- 1) (a) Explain the role of liver in fat metabolism.  
(b) Describe the biological importance of lipids and their synthesis.  
(c) Importance of biochemistry in nursing.

**OR**

- 2) Describe the TCA cycle.

**2 Write short notes : (any three) 3×5=15**

- (a) Therapeutic diet for Hypertension.
- (b) Mid day meal programme
- (c) Function Vitamin
- (d) Classification of Protein
- (e) Structure of cell.

**3 Write very short notes : (any four) 4×2=8**

- (a) Source of Carbohydrates
- (b) Advantage of Breast feeding
- (c) Weaning
- (d) Name some foods for toddlers
- (e) Glucose Tolerance test

**SECTION – II (Bio-Physics)      Marks : 37**

- 4 Long essay : (answer any **one**) **1×10=10**
- (a) (i) Define Heat. (ii) List four principles of Heat Transfer.  
(iii) Application of Heat in nursing. (2+2+6=10)
- (b) Give the types of different thermometers and write note  
on clinical thermometer. (5+5=10)
- 5 Write short notes : (answer any **three**) **3×5=15**
- (a) Explain lever and pulley.
- (b) Biological effect of light and their use in therapy
- (c) Radiotherapy
- (d) Noise pollution and its prevention
- 6 Briefly answer following : (all **compulsory**) **6×2=12**
- (a) Pacemaker
- (b) Defibrillation
- (c) Tonometry
- (d) Hypermetropia
- (e) Intracranial pressure
- (f) Blood Pressure.
-