



**HAV-020107**

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

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

**July – 2017**

**Biochemistry & Biophysics : Paper - III**

Time : 3 Hours]

[Total Marks : 75

**Instructions :**

- (1) All sections are compulsory.
- (2) Write each section in separate answer book.
- (3) Draw neat, labelled diagrams whenever necessary.
- (4) Figure to the right indicate full marks.

**SECTION - I (Biochemistry) (38 Marks)**

1 Describe the TCA Cycle. **15**

**OR**

1 Describe B-oxidation. **15**

2 Write down short notes on following : (any three) **15**

- (a) Importance of biochemistry in nursing.
- (b) Classification of protein.
- (c) Structure of cell and explain its various components.
- (d) Factors affecting enzyme activity.

3 Answer the following questions in few lines : (any four) **4×2=8**

- (1) Functions of LDL and HDL
- (2) Gluconeogenesis
- (3) Glucose tolerance test
- (4) Function of Vit - A
- (5) Define Antigen and Antibody.

**SECTION - II (Biophysics) (37 Marks)**

- 1** Long answer : (any one) **1×10=10**
- (1) What is MRI ? Explain in detail.
- OR**
- (1) What is CAT scan ? Explain in detail.
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- 2** Short notes : (any three) **3×5=15**
- (1) Application of principles of gravity in Nursing.
- (2) ECG
- (3) Principles of common electric equipments used in patient care.
- (4) Use of ultrasound.
- (5) Noise pollution and its prevention.
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- 3** Very short essay : (compulsory) **6×2=12**
- (1) Pacemakers and Defibrillation
- (2) ECT
- (3) Ohm's law
- (4) Laws of reflection
- (5) Regulation of body temperature
- (6) Types of Motion.
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