



NC-1806000701030001

First Year Post Basic B. Sc. (Nursing) Examination
December - 2021
Biochemistry & Biophysics

Time : 3 Hours]

[Total Marks : 75

Instruction :

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
First Year Post Basic B. Sc. (Nursing)

Name of the Subject :
Biochemistry & Biophysics

Subject Code No. : **1 8 0 6 0 0 0 7 0 1 0 3 0 0 0 1** Section No. (1, 2,.....): **1&2**

Seat No. :
[] [] [] [] [] []

Student's Signature

Section-A

- 1 Write short answers (any 8) 8**
1. Define Hyperglycemia
 2. Catabolism
 3. Full form of GTT
 4. Define glycogenesis
 5. Protein synthesis
 6. _____ are known as the power houses of the cell.
 7. Define Ketone bodies
 8. Gout
 9. Normal S. Potassium level and normal S. Sodium level
 10. Glycosuria
- 2 Short Essay (any 4) 20**
1. Define enzyme and its classification.
 2. Importance of biochemistry in Nursing
 3. Classification of carbohydrates with examples
 4. Functions of electrolytes in human body
 5. Explain role of liver in metabolism of fat
 6. Describe Urea Cycle

- 3 Long Essay (any 1) 10**
1. Explain characteristics of Amino Acids, write classification of Amino acids with examples.
 2. Digestion and absorption of proteins

SECTION: B

- 1 Write short answers (any 7) 7**
1. What is EMG and ECG?
 2. Radioactive isotope
 3. Define conduction and convection
 4. Sterilization
 5. Intracranial pressure
 6. Velocity and intensity
 7. Define cataract
 8. Energy
 9. What is the normal audio frequency range of Human ear?

- 2 Short Essay (any 4) 20**
1. What is pace maker? Explain its types and functions.
 2. Describe the effects of gravity on human body and its application in nursing.
 3. What is Relative humidity? Explain Regulation of body temperature.
 4. Explain friction.
 5. Define Vector and scalar quantities. Write comparison between them.
 6. Explain Simple mechanics

- 3 Long Essay (any 1) 10**
1. Explain the term force, work and energy. Mention their Units. Explain the principle of Machines.
 2. Describe the effects of electricity on Human body.
