



ML-020107

Seat No. _____

First Year Post Basic B. Sc. (Nursing)

Examination

July - 2016

Biochemistry & Biophysics

Time : 3 Hours

[Total Marks : 75

SECTION - I (Biochemistry) (38 Marks)

1 LONG ESSAY : (ANY TWO) 2×10=20

- (1) Give a detailed note on Glycolysis.
- (2) What are enzymes and factors affecting enzymatic activity?
- (3) Explain Urea cycle and its signification.

2 SHORT NOTES : (ANY THREE) 3×5=15

- (1) How carbohydrates can be classified?
- (2) Explain secondary structure of the protein.
- (3) What are the mechanism of membrane transport system?
- (4) What is glucose tolerance test (GTT)?
- (5) What are lipoproteins and their functions?

3 SHORT NOTES : (ANY ONE) 3×1=3

- (1) What are saturated and unsaturated fatty acids?
- (2) Give classification and nomenclature of enzymes.

SECTION - II (Biophysics) (37 Marks)

- 1 LONG ESSAY : (ANY ONE OUT OF TWO) 1×10=10**
- (1) Define pressure. Enlist various type of pressure in the body. Describe measurement of various type of pressure in body.
 - (2) Define body mechanism. List out principles of body mechanism. Describe maintenance of body mechanism.
- 2 WRITE SHORT NOTES ON FOLLOWING : 3×5=15**
(ANY THREE OUT OF FIVE)
- (1) Radio therapy
 - (2) Defibrillation
 - (3) Gravitational forces in context of human body.
 - (4) Discuss about temperature scale
 - (5) Use of Light in therapy
- 3 VERY SHORT ANSWER : (NO CHOICE) 6×2=12**
- (1) Sterilization
 - (2) ECG
 - (3) Structure of Atom
 - (4) Tonometry
 - (5) Humidity
 - (6) Types of Scans.