



R-4046

First Year BASIC B. Sc. (Nursing) Examination

June / July - 2018

Nutrition & Biochemistry

Time : 3 Hours]

[Total Marks : 75

Instruction :

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

Name of the Examination :
F. Y. BASIC B. SC. (NURSING)

Name of the Subject :
NUTRITION & BIOCHEMISTRY

Subject Code No. : 4 0 4 6 Section No. (1, 2,.....) : 1&2

Seat No. :

Student's Signature

SECTION - I (45 Marks)

- 1 Define the following : (Any Five) 5×1=5
- (a) Food
 - (b) BMI
 - (c) Energy
 - (d) Macronutrients
 - (e) Vitamins
 - (f) RDA
 - (g) Metabolism.
- 2 Short answers : (Any Six) 6×5=30
- (a) Factors affecting food and nutrition
 - (b) Classification and functions of protein
 - (c) Methods of food preservation
 - (d) Mid day meal programme
 - (e) Vitamin D
 - (f) Digestion and metabolism of fat
 - (g) Iodine
 - (h) Balanced diet

3 Long answers : (Any One) $1 \times 10 = 10$

Define food adulteration and write note on Food Adulteration Act.

OR

What is dehydration? Discuss functions of water and classify water component and composition of different body fluid spaces.

SECTION - II (30 Marks)

4 Define the following : (Any Five) $5 \times 1 = 5$

- (i) Osmosis
- (ii) Buffer
- (iii) Mitochondria
- (iv) pH of Blood
- (v) Define lipids
- (vi) Name essential Fatty acids
- (vii) Difference between DNA and RNA.

5 Short answers : (Any Three) $3 \times 5 = 15$

- (a) Draw and explain Fluid Mosaic Model or CELL Membrane.
- (b) Classify Immunoglobins.
- (c) Function of Cholesterol.
- (d) Write a note on bio-oxidation.
- (e) Importance for biochemistry for Nurses.

6 Write long essay : (Any One) 10

- (a) Define enzymes and classify it.
- (b) Write the functions of the enzymes.

OR

Write the steps involved in urea cycle and how it is regulated ?