



B-4226

F. Y. B. Sc. (Nursing) Examination

May/June - 2017

Nutrition & Biochemistry

Time : Hours]

[Total Marks : 75

**Instruction :**

नीचे दशांशों में निशानीवाणी विगतो उत्तरवही पर अवश्य लખवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
F. Y. B. Sc. (Nursing)

Name of the Subject :  
Nutrition & Biochemistry

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

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

Student's Signature

**SECTION - I (Nutrition)**

- 1 (a) Explain the digestion and absorption of proteins. 10  
Add a note on functions of proteins.
- OR
- (b) Explain the sources, requirements and functions 10  
of carbohydrates. Add a note on digestion of carbohydrates.
- 2 Defines the following : 30
- (1) Classification of Amino Acid
  - (2) Function of lipids
  - (3) Basal metabolic rate
  - (4) Beriberi
  - (5) Rickets
  - (6) MidDay Meal Programme.

- 3 Define the following : (any five) 5
- (1) Defined balanced diet.
  - (2) List down the sources of calcium.
  - (3) What is anaemia. Mention any two vitamins which prevent anaemia ?
  - (4) List out the methods of cooking.
  - (5) Give the classification of food.
  - (6) Food preservation.
  - (7) Functions of water.

### SECTION - II (Biochemistry)

- 1 What is normal serum calcium level. How is it regulated. 10  
Add a note on hypercalcemia and hypocalcaemia.
- 2 Defines the following : (any three) 15
- (1) Lipoproteins.
  - (2) Biologically important substances synthesized from phenyl alanine.
  - (3) Describe the deficiency manifestation of thiamine.
  - (4) Phenylketonuria.
- 3 Define the following : (any five) 5
- (1) Lactose intolerance.
  - (2) Indications for oral glucose tolerance test.
  - (3) Mitochondria.
  - (4) Two important causes of metabolic acidosis.
  - (5) Immunoglobulin G.
  - (6) Name two reducing disaccharides.
  - (7) Name the two conditions in which blood sugar level is raised.