



**ML-21262**

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

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

**July – 2016**

**Nutrition & Biochemistry**

Time : 3 Hours]

[Total Marks : 75

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

- 1 Long essay : (any one out of two) 15
- (1) (a) What are Vitamins ? 2
- (b) Classify Vitamins based on their solubility. 3
- (c) Explain in detail about Vitamin A. 10
- (2) (a) Define Cooking. 2
- (b) Benefits of Cooking. 3
- (c) Write about various methods of Cooking. 10
- 2 Write short notes on following : (any three out of five) 3×5=15
- (1) Functions of Proteins
- (2) Food preservation methods
- (3) Nutritional problems in India
- (4) Explain about Calcium
- (5) National Iodine deficiency disorder programme.
- 3 Briefly answer following : (any four out of six) 4×2=8
- (1) Define Balanced diet
- (2) Define Pasteurization
- (3) PEM
- (4) Zinc
- (5) Define BMI and BMR
- (6) Vitamin C deficiencies.

SECTION - II (Biochemistry) (37 Marks)

- 4 Long Essay : (any one) 1×10=10
- (a) Immunoglobulins.
  - (b) Describe Catabolism of Heme in detail and describe various types of Jaundice.
- 5 Short notes : (any three) 3×5=15
- (a) Vitamin C
  - (b) Plasma Proteins with its significance
  - (c) Urea cycle and its significance
  - (d) Sickle cell syndrome
  - (e) What is normal blood sugar level ? How it is maintained at a constant level ?
- 6 Answer briefly : (all compulsory) 6×2=12
- (a) Biochemical function of Vitamin D
  - (b) Why Cellulose is important for Health ?
  - (c) Methemoglobin cannot carry oxygen.
  - (d) Glucose tolerance test
  - (e) Types of lipoproteins
  - (f) Importance of bile salt in lipid metabolism.
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