



BCF-21262 Seat No. _____

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

January – 2016

Nutrition & Biochemistry

Time : 3 Hours]

[Total Marks : 75

SECTION - I (Nutrition)

- 1** Long essay : (any one) **1×15=15**
 - (a) What are vitamins ? Classify vitamins based on their solubility. Explain in detail about any one fat soluble vitamin.
 - (b) Explain about protein digestion in our body.

- 2** Short notes : (any three) **3×5=15**
 - (a) Balanced diet
 - (b) Functions of protein
 - (c) Food adulteration
 - (d) Nutritional programmes in India
 - (e) Food standards.

- 3** Short answers : (any four) **4×2=8**
 - (a) List important food sources of iron.
 - (b) What are the effects of cooking on green leafy vegetables ?
 - (c) Weaning.
 - (d) Methods of cooking.
 - (e) PEM
 - (f) Hypervitaminosis.

SECTION - II (Biochemistry)

- 1** Long essay : (any one) **1×10=10**
- (1) Explain TCA cycle in detail.
 - (2) Explain factors affecting enzymatic activity.
- 2** Short notes : (any three) **3×5=15**
- (1) What is Glucose Tolerance Test (GTT) ?
 - (2) Explain fluid-mosaic model of cell membrane.
 - (3) What are lipoproteins and their functions ?
 - (4) Give classification of immunoglobulin.
 - (5) What are homopolysaccharides and heteropolysaccharides ?
- 3** Short notes compulsory : **2×6=12**
- (1) Give sources and functions of vitamin A.
 - (2) Explain any two cell organelles in detail.
 - (3) Explain major elements and their functions in body.
 - (4) What are significances of clinical biochemistry in nursing ?
 - (5) What are free radicals and antioxidants ?
 - (6) Give definitions of biochemistry and metabolism.
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