



RD-21262

Seat No. _____

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

February - 2019

Nutrition & Biochemistry

(New Course)

Time : Hours]

[Total Marks :

Instructions :

1. All sections are compulsory.
2. Write each section in separate Answer book.

SECTION – I (Nutrition) (Marks : 38)

1 Long Essay : (Any one) 1×15=15

- 1 (a) What are vitamins ? 2
- (b) Classify vitamins based on their solubility. 3
- (c) Explain in detail about Vitamin A. 10

OR

- 1 (a) Define cooking. 2
- (b) Benefits of cooking. 3
- (c) Write about various methods of cooking. 10

2 Write short answer on following : (Any three) 3×5=15

1. Nutritional problems in India.
2. PEM.
3. Functions of protein in our body.
4. National Iodine deficiency disorder program.
5. Food adulteration.

3 Briefly answer the following : (Any four) 4×2=8

1. BMI
2. Weaning
3. Define balanced diet
4. Calcium
5. Vitamin K deficiency
6. Define Pasteurization.

SECTION – II (Biochemistry) (Marks : 30)

- 1** Long Essay : (Any **1** out of **two**) **1×10=10**
- a) Define the Glycolysis. 2
 - b) Explain the Glycolysis cycle in detail. 8
- OR**
- a) Define osmosis. 2
 - b) Explain transport mechanism of sodium ion on the basis of osmosis principal. 4
 - c) pH buffers. 4
- 2** Short Essay : (Any **3** out of **5**) **3×5=15**
- a) Difference between prokaryotic cell and eukaryote cell
 - b) Regulation of blood glucose level
 - c) Vitamin D
 - d) Enzymes
 - e) Immunoglobulin.
- 3** Short Answers : (Any **5** out of **6**) **1×5=5**
- a) Glucocorticoids
 - b) Functions of Golgi apparatus
 - c) Food sources of Vitamin E
 - d) Two example of lipoprotein
 - e) Two uses of amino acid
 - f) ELISA.
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