



PAA-21262

Seat No. _____

First Year Basic B. Sc. (Nursing) Examination

August - 2018

Nutrition & Biochemistry

Time : Hours]

[Total Marks :

- Instructions :** (1) All questions are compulsory.
(2) Figures to the right indicate full marks.
(3) Draw diagram wherever it's necessary.

SECTION - I (Nutrition) (45 Marks)

1 Long Essays (Any 1) 1×15=15

- (1) Explain protein under the following headings : **4+2+4+5=15**
Digestion, Sources, Functions, Deficiencies.

OR

- (2) Define Basal Metabolic Rate. Explain its **2+5+8=15**
determination and factors affecting it.

2 Short notes : (Any 3) 3×5=15

- (1) Explain the methods of cooking.
(2) Prevention of food adulteration Act.
(3) Over hydration & Dehydration.
(4) Factors affecting food & Nutrition.
(5) Prepare a day's menu for a pregnant woman.

3 Short Answer : (Any 5) 5×3=15

- (1) Nutrition Education
(2) Mid Day Meal programme.
(3) Sources of iron.
(4) Body mass index (BMI)
(5) Recommended Daily Allowance. (RDA)
(6) Osteomalacia.
(7) Functions of carbohydrates.

SECTION - II (Biochemistry) (37 Marks)

- 1 Long Essay : (Any 1 out of 2) 1×10=10**
- (1) (a) Define & Classify carbohydrates ? 3
(b) Describe pathway of Glycolysis ? 7
- (2) (a) What are lipoproteins ? 2
(b) List down functions of lipoproteins. 4
(c) Explain beta oxidation of fatty acids. 4
- 2 Short Essay : (Any 3 out of 5) 3×5=15**
- (1) Regulation of blood glucose level.
(2) Explain pH Buffer system.
(3) Fluid mosaic model.
(4) Urea cycle & its significance.
(5) Mechanism of Antibody production in body.
- 3 Short Answers : (Compulsory) 6×2=12**
- (1) Vitamin-E
(2) HLA typing
(3) Electrophoresis
(4) Osmosis
(5) Structure of Human cell
(6) List down modified proteins.
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