

Time: Three Hours

Max. Marks: 100 Mark

## NUTRITION & BIOCHEMISTRY (R S - 2)

### Q.P. CODE: 1748 & 1749

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever neces  
Use separate answer books for section A and section B

**Q.P. Code: 1748 - Section 'A' - Nutrition (60 Marks)**

#### LONG ESSAYS (Any Two)

1. Discuss the methods of assessing nutritional status of a community
2. Define BMR. What are the various factors affecting BMR?
3. National programmes related to nutrition

2 x 10 = 20 M

#### SHORT ESSAYS (Any Five)

4. Mid-day meal programme
5. Dietary sources, functions and requirements and deficiency of vitamin-A
6. Role of nutrition in maintaining health
7. Various method of food storage
8. Nutritional needs of a pregnant mother
9. Functions of protein
10. Food additives

5 x 5 = 25 M

#### SHORT ANSWERS

11. Food adulteration
12. Functions of calcium in the body
13. Care
14. Recommended dietary allowances of energy and protein of a lactating mother
15. Boiling and frying

5 x 3 = 15 M

**Q.P. Code: 1749 - Section 'B' - Biochemistry (40 Marks)**  
 Use separate answer book

#### LONG ESSAYS (Any One)

1. Give the composition of a cell. Add a note on the structure (with diagram) and functions o cell membrane
2. Describe tricarboxylic acid cycle. Add a note on its energetics

1 x 10 = 10 M

#### SHORT ESSAYS (Any Three)

3. Classify carbohydrates with suitable examples
4. Describe the steps of Beta Oxidation of palmityl CoA
5. Functional classification of proteins
6. Describe triacyl glycerol synthesis (TAG)

3 x 5 = 25 M

#### SHORT ANSWERS

7. Deamination
8. Essential fatty acids
9. Functions of Thiamine
10. Name three enzymes of diagnostic importance
11. Mention normal serum levels of
 

a) Sodium	b) Potassium	c) Calcium
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5 x 3 = 15 M

1  
1  
2  
1