

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM**  
**(Deemed to be University)**

**B.Sc. (NURSING) DEGREE EXAMINATION – August 2018**  
**First Year**

**NUTRITION AND BIOCHEMISTRY**

Time: Three hours

Maximum: 75 marks

**Answer Part A and Part B in separate Answer Book**

**PART – A**

**NUTRITION**

**Maximum: 45 marks**

**SECTION – A**

I. Answer **All** Questions. Each answer in one or two sentences: (10 x 1 = 10)

1. What is scurvy?
2. Give the classification of carbohydrates.
3. Name the deficiency of caused by iodine
4. List down the sources of calcium.
5. What is meant by digestibility coefficient of food?
6. Name two medicinal plants.
7. Give two examples of supplementary foods.
8. What is the nitrogen balance?
9. Give four sources of iron.
10. How is pellagra characterised.

**SECTION – B**

II. Write Short Notes on any **THREE** of the following: (3 x 5 = 15)

11. Factors affecting BMR
12. PEM
13. Any two nutritional problems.
14. Goitre
15. Properties of lipids

**SECTION – C**

III. Answer any **TWO** of the following: (2 x 10 = 20)

16. Explain the method of cooking in detail.
17. Elaborate on preservation of food
18. Explain about the digestion and absorption of proteins.
19. Discuss vitamin –A in detail.

**PART – B**

**BIOCHEMISTRY**

**Maximum: 30 marks**

**SECTION – A**

I. Answer all questions. Each answer in one of two sentences: (5 x 1 = 5)

1. Define glycolysis
2. Write the uses of fatty acids
3. Name the sulfur containing amino acids
4. Write the normal value of total Bilirubin and glucose fasting
5. Name the deficiency manifestation of Vitamin A

**SECTION – B**

II. Write short notes on an **THREE** of the following : (3 x 5 = 15)

6. Types of fatty acids
7. Fluid mosaic model
8. Cori's cycle
9. Collagen
10. Classify carbohydrates

**SECTION – C**

III. Answer any **ONE** of the following: (1x 10 =10)

11. (a) Elaborate the steps in cholesterol biosynthesis.

**(OR)**

- (b) Give a brief account on urea cycle.

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(Sl.No.M19092 )