

Faculty of Science
B.Sc (Applied Nutrition and Public Health) I-Year, CBCS-I Semester
Regular Examinations, Dec/Jan 2019-20
PAPER: BASICS OF BIOCHEMISTRY

Time: 3 Hours

Max Marks: 80

Section-A

I. Answer **EIGHT** from the following questions (**Two from each part**) (8x4=32 Marks)

PART - I

1. Nutrition
2. Digestion and absorption of nutrients
3. Nutritional significance of carbohydrates

PART - II

4. Pathophysiology of PEM
5. Purines and pyrimidines
6. Deamination and transamination of proteins

PART - III

7. Rancidity of oils
8. Sources of lipids
9. Ketosis

PART - IV

10. PFV of foods
11. Energy yielding food factors
12. Calorimetry- principle and types

SECTION-B

II. Answer the following questions (4x12=48 Marks)

13. (a) Classify carbohydrates and write the sources of obtaining them by food intake.

(OR)

(b) Explain how food groups are classified and write a note on nutritional needs of body.

14. (a) What are amino acids? outline their classification and properties.

(OR)

(b) Explain the structure and biological functions of RNA in detail.

15. (a) Explain the nutritional facts, range and adverse effects of over consumption of cholesterol in food.

(OR)

(b) What are essential fatty acids, write about their types and functions.

16. (a) What is meant by RDA? Explain how it is calculated and write in brief factors affecting RDA.

(OR)

(b) What is meant by BMR. How do you determine it and how does your BMR help you lose weight?
