



## BRAINWARE UNIVERSITY

### Term End Backlog Annual Examination, March- 2022

Programme – Bachelor of Science in Nursing

Course Name – Nutrition and Biochemistry

Course Code – BNS102

(Year – I)

Time allotted: 3 hrs.

Full Marks: 75

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable. Write answer of Section – A and Section –B in separate Answer booklet.]

#### Section – A

1. Write short answer on any *four* of the following: 4 x 5 = 20
  - (I) Mid-day meal programme. [5]
  - (II) Importance of dietary fibres. [5]
  - (III) Prevention of food adulteration. [5]
  - (IV) Principles of menu planning. [5]
  - (V) Food borne disease. [5]
  
2. Write long answer on any *one* of the following: 1 x 10 = 10
  - (I) Explain sources, factors affecting absorption and the deficiency manifestations of Iron. [3+4+3= 10]
  - (II) What is PEM. Describe its clinical features of any form & its management. [2+3+5= 10]
  
3. Write long answer on any *one* of the following: 1 x 15 = 15
  - (I) Define and classify the vitamins. Write sources, daily requirements, function and deficiency manifestation of Vit D. [2+5+8= 15]
  - (II) Classify lipids. Write in details about the functions of lipids. [8+7= 15]

**Section –B**

**1. Write short answer on any two of the following:**

2 x 5 = 10

- (I) Prokaryotic cells vs eukaryotic cells. [5]
- (II) Biochemical function of Vit C. [5]
- (III) Short note on Lipoproteins. [5]

**2. Write long answer on any two of the following:**

2 x 10= 20

- (I) What are ketone bodies? Discuss atherosclerosis? Briefly explain about fatty acids. [2+4+4= 10]
- (II) Discuss the digestion and absorption of carbohydrates. Add a note on the metabolic disorders associated with carbohydrates digestion. [3+3+4= 10]
- (III) Name the sources, daily allowance & deficiency disorders of related to iron & calcium. [2+3+5= 10]