



**BRAINWARE UNIVERSITY**  
**Term End Annual Examination 2021 – 22**  
**Programme – Bachelor of Science in Nursing**  
**Course Name – Nutrition and Biochemistry**  
**Course Code – BNS102**  
 (Year – 1)

**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 notes on any three of the following:** **5 x 3 = 15**
  - a) Mid day meal programme.
  - b) Function of proteins.
  - c) Importance of dietary fibres.
  - d) Food borne disease.
  - e) National Nutritional policy.
  
2. **Write long answer on any one of the following:** **10 x 1 = 10**
  - a) Classify foods and write down the role of foods in daily life. [5+5]
  - b) What are the Nutritional importance of vitamin A & vitamin D? [5+5]
  
3. **Write long answer on any one of the following:** **15 x 1 = 15**
  - a) i) Name the water soluble vitamins.
  - ii) Write down the sources of vit. B1 & B2.
  - iii) Why Beri Beri occurs?
  - iv) How can you prevent B complex deficiency disorders? [4+4+2+5]
  - b) i) What do you mean by mineral?
  - ii) Classify the minerals with examples.
  - iii) Mention the rich sources & deficiency disorder of mineral. [2+4+(4+5)]

**Section –B**

- 4. Write Short notes on any five of the following: 5 x 4 = 20**
- a) Mitochondria
  - b) Essential fatty acid
  - c) Lipoproteins
  - d) Alkalosis
  - e) Pasteurization of milk

- 5. Write long answer on any one of the following: 1 x 15=15**
- a)
- i) Write down the causes of dehydration.
  - ii) What are the signs & symptoms of dehydration?
  - iii) Write down the importance of electrolyte potassium in human body.
  - iv) Describe the features of potassium imbalance. [3+4+4+4= 15]

- b)
- i) Define lipids.
  - ii) Classify the fats & lipids.
  - iii) Write the name of essential fatty acids
  - iv) Describe the functions, digestion & absorption of fats. [2+4+3+6 = 15]