17980

BRAINWARE UNIVERSITY

Term End Examination 2025-2026
Programme – B.Sc.(FND)-Hons-2024
Course Name – Food Science
Course Code - BFD37103 (T)
(Semester III)

Full Marks : 40 **Time : 2:0 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question) 1 x 10=10

1. *Choose the correct alternative from the following :*

(i) Which of the following is a non-reducing sugar?
a) Maltose b) Lactose
c) Sucrose d) Glucose

(ii) Which reaction involves carbohydrates reacting with hydroxylamine?
a) Acetylation b) Reduction
c) Oxime formation d) Esterification

(iii) Which of the following is an essential amino acid?
a) Glycine b) Alanine
c) Leucine d) Serine

(iv) Which food source is incomplete protein?
a) Egg b) Soy
c) Rice d) Meat

(v) Which fatty acid is an omega-3 fatty acid?
a) Oleic acid b) Linoleic acid
c) Palmitic acid d) Alpha-linolenic acid

(vi) Which food is high in saturated fat?
a) Fish b) Almonds
c) Butter d) Sunflower oil

(vii) Which mineral is crucial in nerve transmission and muscle contraction?
a) Sodium b) Phosphorus
c) Iron d) Chromium

(viii) Which trace element works with vitamin E as an antioxidant?
a) Iron b) Chromium
c) Selenium d) Zinc

(ix) What is the main composition of dietary fiber?

a) Lipids
b) Proteins
c) Non-digestible carbohydrates
d) Digestible sugars

(x) What is the role of water in thermoregulation?

a) Increases blood sugar
b) Promotes sweating
c) Slows breathing
d) Raises body temperature

Group-B

(Short Answer Type Questions) 3 x 5=15

2. Write down a short note on- Isoelectric point. (3)
3. Write down a short note on - Saponification Value . (3)
4. Discuss the classification of food. (3)
5. Describe Acetylation reaction of carbohydrate. (3)
6. Justify the functions of dietary fibre. (3)

OR

Justify the functions of water in the human body. (3)

Group-C

(Long Answer Type Questions) 5 x 3=15

7. Describe the digestion process of carbohydrate. (5)
8. Explain the process of absorption of protein. (5)
9. Explain the interrelationship between Vitamin E and Selenium. (5)

OR

Illustrate Wald's visual cycle. (5)

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