



BRAINWARE UNIVERSITY

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Term End Examination 2024-2025
Programme – B.Sc.(FND)-Hons-2022
Course Name – Clinical Nutrition and Diet
Course Code - BFNC501
(Semester V)

Full Marks : 60

Time : 2:30 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 15=15

1. Choose the correct alternative from the following :

- (i) Identify the role of omega-3 fatty acids in the diet of a burn patient.
 - a) To provide energy
 - b) To reduce inflammation
 - c) To promote fat storage
 - d) To decrease protein breakdown
- (ii) Name the hormone is often elevated in response to injury and contributes to hyperglycemia.
 - a) Aldosterone
 - b) Cortisol
 - c) Estrogen
 - d) Growth Hormone
- (iii) The systemic inflammatory response syndrome (SIRS) in sepsis leads to which of the following?
 - a) Localized infection
 - b) Multiorgan failure
 - c) Improved tissue perfusion
 - d) Decreased cardiac output
- (iv) Identify the causative organism of typhoid fever.
 - a) Plasmodium falciparum
 - b) Mycobacterium tuberculosis
 - c) Salmonella typhi
 - d) Streptococcus pyogenes
- (v) Which of the following is the primary cause of gastroesophageal reflux disease (GERD)?
 - a) Helicobacter pylori infection
 - b) Increased stomach acid production
 - c) Lower esophageal sphincter dysfunction
 - d) High dietary fiber intake
- (vi) What is the pathophysiology of flatulence related to high-fiber foods?
 - a) Increased acid production
 - b) Reduced intestinal motility
 - c) Increased bile secretion
 - d) Fermentation by gut bacteria
- (vii) Which dietary treatment is recommended for diverticular disease?
 - a) Low-fiber diet
 - b) High-fiber diet

- c) High-fat diet
(viii) What is a common dietary recommendation for managing IBS?
a) Increase intake of refined sugars
b) Low FODMAP diet
c) High-protein diet
d) High-fat diet
(ix) Which of the following is excluded in the diet of a patient with Celiac Disease?
a) Gluten
b) Dairy
c) Proteins
d) Fructose
(x) Steatorrhea is characterized by the excessive loss of which substance in stools?
a) Fat
b) Bile acids
c) Proteins
d) Carbohydrates
(xi) Name the liver enzyme that is elevated in cases of bile duct obstruction?
a) AST (Aspartate transaminase)
b) ALP (Alkaline phosphatase)
c) Lipase
d) CK-MB
(xii) What is the main cause of hepatic encephalopathy?
a) Ammonia accumulation
b) Increased glucose production
c) Excessive bile production
d) Low blood pressure
(xiii) Identify the symptom that is typically seen in the early stages of chronic renal failure.
a) Polyuria
b) Nocturia
c) Edema
d) Oliguria
(xiv) Anaphylaxis, a severe allergic reaction, is characterized by which of the following?
a) Swollen lips and difficulty breathing
b) Headache and dizziness
c) Fatigue and sleepiness
d) Mild skin irritation
(xv) In Alzheimer's disease, name the protein that is associated with plaque formation.
a) Tau protein
b) Amyloid-beta
c) Alpha-synuclein
d) Serotonin

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Write down a short note on septic shock. (3)
3. Explain the difference between cholecystitis & cholelithiasis. (3)
4. Write down the difference between Ulcerative Colitis & Crohn's Disease.. (3)
5. Write down the difference between food allergy and food intolerance. (3)
6. Explain the term- Steatorrhea (3)

OR

Explain the term- Intestinal Brush border diseases. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Write down a short note on Cirrhosis of liver. (5)
8. Classify hepatitis according to the pathological reasons. Discuss in brief about the role of diet in prevention of hepatitis. (5)
9. Explain the principle of overall management of glomerulonephritis patient. (5)
10. Write down a short note on Anaphylaxis in food allergy. (5)
11. Explain different systemic metabolic responses seen during sepsis. (5)
12. Classify different types of jaundice. (5)

OR

Classify food allergies.

(5)
