

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BVoc DEGREE EXAMINATION DECEMBER 2024
(Fifth Semester)

Branch - FOOD PROCESSING TECHNOLOGY

PRINCIPLES OF NUTRITION

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. Name the term used to determine the energy output
(i) Basal metabolic rate (ii) Thermogenesis
(iii) Physical activity (iv) All the above
2. Give the proteins which give single amino acid only upon hydrolysis is called as ____
(i) Derived proteins (ii) Simple proteins
(iii) Conjugated proteins (iv) Complex proteins
3. Which of the following vitamins serves as a hormone precursor?
(i) Vitamin A (ii) Vitamin C (iii) Vitamin D (iv) Vitamin K
4. Find out the deficiency of nutrient causes hypogonadism in males
(i) Calcium (ii) Phosphorus (iii) Zinc (iv) Iodine
5. What is the percentage of water in ICF
(i) 65 (ii) 55 (iii) 50 (iv) 40

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a) Illustrate about the factors affecting BMR.
OR
b) Highlight about the digestion and absorption of carbohydrates.
7. a) Write a short note about functions of proteins.
OR
b) Describe the significance of Essential fatty acids.
8. a) Outline the functions of Vitamin D.
OR
b) Explain the functions of Vitamin C

Cont...

9. a) Write about the functions of phosphorus.
OR
b) Narrate the deficiency of iodine.
10. a) State the effect of imbalance of water.
OR
b) Summarize the composition of electrolytes.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

11. a) Determine the energy value of foods using bomb calorie meter.
OR
b) Discuss the classification and functions of dietary fibre.
12. a) Distinguish the methods of evaluating protein quality.
OR
b) Discover about the digestion and absorption of proteins.
13. a) Distinguish the functions, deficiency of Vitamin A.
OR
b) Elucidate the functions, deficiency of Thiamine.
14. a) Enumerate the functions, deficiency of calcium.
OR
b) Highlight the functions, deficiency of zinc.
15. a) Infer the regulation of water balance.
OR
b) Outline the regulation of acid base balance.

Z-Z-Z END