

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022
(Third Semester)

Branch – FOODS AND NUTRITION

NUTRITION THERAPY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Indicate the base for Semi elemental diets used in enteral nutrition.
(i) Glucose (ii) Peptide
(iii) Lipid (iv) Minerals
- 2 Immediate allergic response due to food is mediated by
(i) IgA (ii) IgE
(iii) IgM (iv) IgG
- 3 Identify the condition in which inflammation initiate in colon and ends in rectum.
(i) Crohn's disease (ii) Tropical sprue
(iii) IBS (iv) Ulcerative colitis
- 4 Indicate the situation where Low cortisol is noticed?
(i) Cushing (ii) Addison
(iii) Acromegaly (iv) Grave's
- 5 Homocysteine level can be decreased by supplementation of
(i) Vit-B1, B6 & B12 (ii) Vit-B2, B3 & B6
(iii) Vit-B6, B9 & B12 (iv) Vit-B3, B6 & B12

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a As a dietitian what would be your objectives during diet plan for a patient with 30-40% burn.
OR
b Illustrate the route for enteral feeding- nasogastric, nasodudonal, nasojejunal, gastrostomy, jejunostomy and rectal feeding.
- 7 a State the clinical features and nutrients requirements in Tuberculosis.
OR
b Comment on the metabolic changes that a patient would go through in burns.
- 8 a Interpret the symptoms and clinical findings in peptic ulcer and what are the deficiency expected in this situation?
OR
b Categorize diarrhea and state the physiological disturbances in a person with severe diarrhea.
- 9 a Why glycemic index and glycemic load are important in diabetic menu plan and give the formula for its calculation.
OR
b Differentiate between the clinical and biochemical features of hypo and hyperthyroidism and list the important dietary consideration.

Cont...

- 10 a How rheumatoid arthritis differs from osteoarthritis and what modifications are necessary in both the conditions?
OR
b Justify the role of antioxidants in cancer prevention and during treatment.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Formulate total parental nutrition for adults and what are the complications that arise in TPN?
OR
b Categorize the type of foods suitable for enteral formulas along with the feeding requirements.
- 12 a Enumerate the Endocrine and Metabolic Consequences during Hystectomy and dietary consideration in pre and post-operative care.
OR
b What is immunonutrition and the important constituents of commercial immunonutrition formulas ?
- 13 a Analyze the biochemical and metabolic changes in cirrhotic patients and what are all the points to be taken care in diet plans.
OR
b Why acute renal failure is a medical emergency and how you will contribute to dietary management ?
- 14 a What are the metabolic outcomes of insulin resistance, complications and its management through nutrition?
OR
b Sketch out the metabolic error in phenylketonuria, bring out the symptoms and the nutritional support for better prognosis.
- 15 a Categorize the risk factors and the desirable lipid levels in CVD and give the principles of diet.
OR
b Women with HIV virus becomes pregnant, what are the prenatal and postnatal consideration during breastfeeding.

Z-Z-Z

END