

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2022
(Second Semester)

Branch – FOODS AND NUTRITION

ADVANCED NUTRITION - II

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks (5 x 1 = 5)

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks $(5 \times 3 = 15)$

- 6 a Explain the physiological action of Vitamin A.
OR
b Discuss on digestion and absorption of fat-soluble vitamin C.

7 a State the functions of pyridoxine.
OR
b Explain the interaction between vitamins B3 with macronutrients.

8 a Analyze the regulation of calcium phosphorus ratio.
OR
b Enumerate and explain the signs and symptoms of iron deficiencies.

9 a Discuss the role of iodine in thyroxine formation.
OR
b Recommend the dietary sources of magnesium and zinc.

10 a Differentiate prebiotics and probiotics.
OR
b Determine the role of fruits as nutraceuticals.

Cont...

SECTION -C (30 Marks)

Answer ALL questions.

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

- 11 a Interpret on the interaction of fat-soluble vitamins with Carbohydrate and Protein.
OR
b Elucidate the digestion, absorption, transport, utilization, storage and excretion of Vitamin D.
- 12 a Predict the important physiological functions of folic acid in human beings.
OR
b Explain the inter relationship between water soluble vitamins and hormones.
- 13 a Categorize the factors influencing regulation of calcium concentration.
OR
b State the role of iron in prevention of anemia.
- 14 a Explain the deficiency and toxicity of selenium and chromium.
OR
b Enumerate and explain any four functions of Iodine.
- 15 a Explain the effect of Alcohol, caffeine, fruits and vegetables on gene interactions.
OR
b Classify Nutraceuticals with its toxicity.

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