

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023  
(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)

1. Choose the sources of Vitamin A from the following  
(i) Pumpkin (ii) Bread  
(iii) Egg (iv) Mushroom
2. How is thiamine otherwise called as?  
(i) Vitamin B<sub>1</sub> (ii) Vitamin B<sub>2</sub>  
(iii) Vitamin B<sub>3</sub> (iv) Vitamin B<sub>5</sub>
3. Name the richest source of calcium?  
(i) Bamboo Rice (ii) Brown Rice  
(iii) Ragi (iv) Curd
4. Identify the condition which is not connected with copper?  
(i) Menkes diseases (ii) Hypocupremia  
(iii) Mood swing (iv) Myelopathy
5. Find out the probiotic product prepared from soya bean?  
(i) Lassi (ii) Kimsi  
(iii) Keffir (iv) Tempeh

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a. Sketch out the functions of Vitamin E in detail.  
(OR)  
b. Analyze the deficiency of Vitamin K.
7. a. Explain the importance of vitamin C in collagen and neurotransmitter synthesis.  
(OR)  
b. State the deficiency disorders of Thiamine.
8. a. Analyse the physiological functions of calcium.  
(OR)  
b. Illustrate the Mechanism of action of magnesium.
9. a. Discuss the various functions of zinc.  
(OR)  
b. Explain the digestion, absorption and transport of iodine.
10. a. Evaluate the concept of nutraceutical in detail.  
(OR)  
b. Show the comparison of prebiotic and probiotics.

Cont...

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. a. Justify the essential role of Vitamin A in visual perception.  
(OR)  
b. Enumerate the RDA table of Vitamin D.
12. a. Elucidate the metabolism and excretion of Folate.  
(OR)  
b. Compare the functions of Riboflavin with Niacin.
13. a. Interpret on the excretion and toxicity of phosphorus.  
(OR)  
b. Criticize the deficiency of calcium.
14. a. Elucidate the digestion, absorption and transport of zinc.  
(OR)  
b. Evaluate how molybdenum interacts with other nutrients.
15. a. Assess the role of fruit and its component as Nutraceuticals.  
(OR)  
b. Determine the effect of caffeine, fruits and vegetables on gene.

Z-Z-Z

END