

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**MSc DEGREE EXAMINATION DECEMBER 2022
(Second Semester)**

Branch – FOODS AND NUTRITION

PHYSIOLOGICAL ASPECTS 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 Hexokinase is an example of

(i) Oxidoreductase	(ii) Transferase
(iii) Hydrolase	(iv) Lyase
- 2 Cones are responsible for ----- vision.

(i) scotopic	(ii) photopic
(iii) peripheral	(iv) night
- 3 Insulin secretion is inhibited by

(i) secretin	(ii) epinephrine
(iii) growth hormone	(iv) gastrin
- 4 Which of the following immunoglobulins has the highest mean serum concentration in humans?

(i) IgA	(ii) IgD
(iii) IgG	(iv) IgM
- 5 What phenomenon can occur in case of using a combination of drugs?

(i) Tolerance	(ii) Tachyphylaxis
(iii) Accumulation	(iv) Synergism

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a. Explain the site of pepsinogen secretion.
OR
- b. Discuss on production of free radicals in biological system.
- 7 a. Organize the histology of Tongue.
OR
- b. State the circadian rhythm in urine.
- 8 a. Analyze the mode of action of pituitary gland.
OR
- b. Show the functions of Gonads.
- 9 a. Discuss on Natural immunity.
OR
- b. Hypersensitivity is an immune disorder- Explain it.
- 10 a. Assess pharmaco dynamic interaction.
OR
- b. Penicillin demonstrates a bactericidal effect- Justify it.

Cont...

SECTION -C (30 Marks)
Answer ALL questions
ALL questions carry EQUAL marks

(5 x 6 = 30)

- 11 a. Enumerate on physiology of amylase and lipase.
OR
b. Recommend any three antioxidants and its role for a patient with heart disease.
- 12 a. Categorize the common disorders of taste mechanism.
OR
b. Elucidate the mechanism of hearing.
- 13 a. Compare the mode of action of thyroid with parathyroid.
OR
b. Enumerate on hormones of kidney.
- 14 a. Develop antigen and antibody interaction.
OR
b. Analyze immune response and aging.
- 15 a. Construct clinical significance of drugs
OR
b. Evaluate on oral hypo glycaemic drugs.

Z-Z-Z

END