

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023
(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 Indicate the enzyme that metabolizes Hydrogen per oxide, produced by superoxide dismutase
(i) peroxidase (ii) reductase
(iii) catalase (iv) dismutase
- 2 Choose the Relative taste index of Quinine .
(i) 1.1 (ii) 1
(iii) 11 (iv) 0.11
- 3 Identify the Steroid secreted by the adrenal cortex.
(i) estrogen (ii) testosterone
(iii) Insulin (iv) cortisol
- 4 The lymphocytes are found in the following tissues except
(i) spleen (ii) thymus
(iii) pancreas (iv) bonemarrow
- 5 Pharmacodynamics involves the study of following EXCEPT:
(i) Biological and therapeutic effects of drugs
(ii) Absorption and distribution of drugs
(iii) Mechanisms of drug action
(iv) Drug interactions

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a. Analyze how glandular secretions are regulated by Hormones?
OR
b. Show the sources for Generation of free radicals.
- 7 a. Discuss on Emmetropia.
OR
b. Explain Deafness.
- 8 a. State the two hormones that are produced from the posterior pituitary gland.
OR
b. Choose the abnormalities of thyroid function.
- 9 a. Classify the types of Acquired Immunity.
OR
b. Illustrate the properties of Antibodies.

Cont...

- 10 a. Show the two phases of drug metabolism.
OR
b. Discuss on Biguanides.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a. Construct the significance of Pepsin and Trypsin.
OR
b. Elucidate on Gastrin and Cholecystokinin.
- 12 a. Analyze the receptors of smell sensation.
OR
b. Enumerate on physiology of Hunger and Satiety.
- 13 a. Assess the actions of Anterior Pituitary Gland.
OR
b. Appraise the two hormones secreted by Pancreas.
- 14 a. Construct the immune response in relation to vitamin status.
OR
b. Determine the causes and types of Hyper Sensitivity.
- 15 a. Develop Drug and Diet interaction in Elderly people.
OR
b. Criticize on Drug induced malnutrition.

Z-Z-Z

END