

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023
(Second Semester)

Branch – FOODS AND NUTRITION

NUTRITION RESEARCH METHODS

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

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

1. What is the name of the study deals two groups with different outcome?
i) Description ii) Cohort
iii) Case control iv) Metabolic
2. Which is measured as the percentage of absorbed nitrogen that is retained for use in growth and maintenance?
i) PER ii) BV
iii) NPU iv) NPR
3. Where is the regional composting center for southern region situated?
i) Bangalore ii) Hyderabad
iii) Chennai iv) Kerala
4. What is the normal Vitamin A level in serum?
i) 20mcg/dl ii) 30 mcg/dl
iii) 10mcg/dl iv) 50mcg/dl
5. Name the disease which causes muscle loss during ageing?
i) Muscle weakness ii) Kaposi sarcoma
iii) Sarcopenia iv) Myopeni

SECTION - B (15 Marks)

Answer ALL Questions

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

6. a) Distinguish between Epidemic and Case control study and give an example.
OR
b) State how to choose animals as models for studies and ethics to be adopted.
7. a) Explain the Net Protein ratio and Net Protein utilization.
OR
b) Discuss the assessment of bioavailability of Vitamin A.
8. a) Illustrate the methods of sampling and storage of samples in food sampling.
OR
b) Discuss on the conventions and modes of expression of food composition data.
9. a) Explain about the advantages of food frequency method.
OR
b) State the importance and uses of clinical examination with example.
10. a) Illustrate the principles of energy balance studies.
OR
b) Prepare a note on body composition with regards to muscle strength and muscle mass.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. a) Enumerate the principles and uses of in experimental studies.
OR
b) Elucidate about the methods of identification of animals.
12. a) Justify the Protein Efficiency Ratio method in assessing protein quality.
OR
b) Analyze the principle uses of stable isotopes in nutrient assessment and metabolism.
13. a) Determine the steps involved in Identification of key foods, development of national sampling plan for generating the Indian food composition tables.
OR
b) Point out the guidelines for the use of food composition data.
14. a) Appraise the tests and significance of biochemical assessment of Water soluble vitamins.
OR
b) Elucidate about the segments related to functional assessment of an individual.
15. a) Construct about the significance of metabolic balance studies for Calcium and iron.
OR
b) Classify the methods involve in measurement of body composition and give a detail note.

Z-Z-Z

END