

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2022
(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. Which of the following are not correct on the basis of clinical trials?
 - a) Biomedical research studies
 - b) Behavioral research studies
 - c) Studies on human subjects
 - d) Study based only on animals
2. Choose the food which has high biological value.
 - a) Egg
 - b) Lentils
 - c) Milk
 - d) Groundnut
3. Find the gas which is flushed to prevent oxidation of nutrients in freeze dried analytical samples.
 - a) Hydrogen
 - b) Carbondioxide
 - c) Helium
 - d) Nitrogen
4. What is the normal serum albumin level?
 - a) 3.9-5.0 g/dl
 - b) 3.5-4.5g/dl
 - c) 2.5-5.0g/dl
 - d) 3.2-4.7g/dl
5. Identify the mineral which favors iron absorption.
 - a) Flourine
 - b) Copper
 - c) Iodine
 - d) Selenium

SECTION - B (15 Marks)

Answer ALL Questions

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

11. a) Illustrate about the epidemiological study.
(OR)
b) Analyze about the importance of Clinical trials Registry India.
12. a) Sketch the procedure for Net protein utilization.
(OR)
b) Discuss the bioavailability and bioassay study of Vitamin E.

Cont...

13. a) Outline the uses of food composition data.

(OR)

b) Show the steps involved in the preparation of analytical sample.

14. a) State the significances of nutritional assessment.

(OR)

b) Discuss the benefits of vital surveys.

15. a) Explain the anthropometry method for assessing body composition.

(OR)

b) Produce the factors influencing calcium absorption.

SECTION -C (30 Marks)

Answer ALL questions

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

16. a) Enumerate the principles and uses of experimental studies.

(OR)

b) Determine the general guidelines for human clinical trails.

17. a) Elucidate the method of assessing protein quality by PER study using rats.

(OR)

b) Analyze the Radio Immuno Assay principle and assay of TSH.

18. a) Illustrate the steps of food sampling plan and explain the methods of storing samples.

(OR)

b) Sketch on the modes of expression of food composition data.

19. a) Interpret the tests and significance of biochemical assessment of trace elements.

(OR)

b) Elucidate about the importance of functional assessment.

20. a) Predict the general principle involved in balance study of calcium and nitrogen.

(OR)

b) Explain the tests for assessing maturity.

Z-Z-Z

END