

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 2024
(Second Semester)
Branch – FOODS AND NUTRITION
NUTRITION RESEARCH METHODS

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)
Answer ALL questions
ALL questions carry EQUAL marks (10 × 1 = 10)

| Module No. | Question No. | Question | K Level | CO |
|------------|--------------|---|---------|-----|
| 1 | 1 | Case-control studies can be used to establish a ----- between exposures and outcomes of health. a) Causation b) correlation c) association d) difference | K1 | CO1 |
| | 2 | Sensitisation studies in animals are best conducted in the a) Rabbit b) rat c) Guinea pig d) chicken | K2 | CO1 |
| 2 | 3 | A food with a biological value of ----- and more is considered capable of supporting growth. a) 40 b) 50 c) 60 d) 70 | K1 | CO2 |
| | 4 | State a radio isotope used for radio labeling in RIA. a) tritium b) uranium c) carbon d) potassium | K2 | CO2 |
| 3 | 5 | Key Food Approach is developed by a) FAO b) FDA c) USDA d) ICMR | K1 | CO3 |
| | 6 | Vegetable oils are found to be generally devoid of vitamin A and carotene except a) Corn oil b) soy oil c) redpalm oil d) rice bran oil | K2 | CO3 |
| 4 | 7 | Name the tape that is used to measure mid –upper arm circumference for age. a) QUAC b) Shakir c) Inch d) medical | K1 | CO4 |
| | 8 | Identify index for assessing maternal malnutrition. a) Infant mortality rate b) Perinatal mortality rate c) Toddler mortality rate d) postnatal mortality rate | K2 | CO4 |
| 5 | 9 | Food intake affects the accuracy of which of the following method. a) Underwater weighing b) Airdisplacement c) DEXA d) Bioelectrical Impedence analysis | K1 | CO5 |
| | 10 | Find the following with reference to the ability of a muscle group to sustain repeated contractions over a prolonged period. a) Maximal strength b) Muscle endurance c) Explosive strength d) Relative strength | K2 | CO5 |

SECTION - B (35 Marks)
Answer ALL questions
ALL questions carry EQUAL Marks (5 × 7 = 35)

| Module No. | Question No. | Question | K Level | CO |
|------------|--------------|---|---------|-----|
| 1 | 11.a. | Explain the objectives of metabolic balance studies. | K2 | CO1 |
| | (OR) | | | |
| | 11.b. | Ethical committee can access the CTRI data base to retrieve information about clinical trials in India- Justify it. | | |

Cont...

| | | | | |
|---|-------|---|----|-----|
| 2 | 12.a. | Evaluate PER of soyabean with rats. | K2 | CO2 |
| | (OR) | | | |
| | 12.b. | Discuss on assay of TSH. | | |
| 3 | 13.a. | Can you tell the vitamin D content of Foods in IFCT. | K2 | CO3 |
| | (OR) | | | |
| | 13.b. | Construct the characteristics of food sampling. | | |
| 4 | 14.a. | Show the components of growth chart. | K2 | CO4 |
| | (OR) | | | |
| | 14.b. | Describe the importance of nutrition surveys. | | |
| 5 | 15.a. | Explain the measurement of body volume using under water weighing method. | K2 | CO5 |
| | (OR) | | | |
| | 15.b. | Assess body composition using Bioelectric Impedance method. | | |

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

| Module No. | Question No. | Question | K Level | CO |
|------------|--------------|---|---------|-----|
| 1 | 16 | Differentiate between in vitro and in vivo studies. | K2 | CO1 |
| 2 | 17 | Summarize the use of stable isotopes in nutrient metabolism. | K2 | CO2 |
| 3 | 18 | Suggest guidelines for the use of Food composition Data. | K2 | CO3 |
| 4 | 19 | Interpret the biochemical report of person with hypercalcaemia. | K2 | CO4 |
| 5 | 20 | Describe advantages and disadvantages of diet history. | K2 | CO5 |

Z-Z-Z

END