

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

**MSc DEGREE EXAMINATION DECEMBER 2023
(Third Semester)**

Branch - **CLINICAL NUTRITION AND DIETETICS**

NUTRACEUTICALS AND DRUG NUTRIENTS INTERACTION

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer **ALL** questions

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

1. Omega-3 fatty acids are naturally high in salmon. Therefore, salmon can be classified as this type of food.

(i) nutraceutical	(ii) A dietary supplement
(iii) Functional food	(iv) A fortified food

2. Which one of the following ingredient improves the gastro intestinal health?

(i) fructo-oligosacharride	(ii) PUFA
(iii) sterol	(iv) Diadezin

3. Anthracyanides used for _____.

(i) Improve mental	(ii) improve Gastro Intestinal Tract
(iii) reduce the risk of CVD	(iv) prevention of renal failure

4. Drugs introduced in to the spinal cord by _____.

(i) Intrathecally	(ii) Intramuscularly
(iii) Sublingually	(iv) Intravenously

5. Nitrofuradantin drug used for the treatment of _____ infection.

(i) Eye infection	(ii) Urinary infection
(iii) Lungs infection	(iv) Throat infection

SECTION - B (15 Marks)

Answer **ALL** Questions

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

6. a Justify how nutrient is not get affected in processing the traditional nutraceutical foods?
 OR
 b Recommend the plant and animal based source of nutraceutical foods.

7. a Differentiate the nutraceutical and functional foods.
 OR
 b Sketch out the role of probiotic microorganism.

8. a Infer on drug interaction.
 OR
 b Discuss the different route of drug administration.

Cont...

9. a Show some sedatives that hinder the nutritional status.
OR
b State on calcium channel blockers.
10. a Sketch out the drug and nutrient interaction during breast cancer.
OR
b State the drug nutrient interaction when supplementing commercial formula.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. a Illustrate the physiological effect of human health on nutraceutical.
OR
b Discuss the metabolism and bioavailability on nutraceutical.
12. a Classify the active ingredient present in functional food.
OR
b Enumerate the steps to be followed in maintaining the quality of probiotics.
13. a Elucidate the metabolism and elimination of drug.
OR
b Interpret how drug interact with the dietary supplements.
14. a Justify how hormone related drug supports on nutritional status?
OR
b Explain diuretics and its interaction.
15. a Determine how drug nutrient interaction occur during transplantation.
OR
b Discuss the drug nutrient interaction during enteral nutrition.

Z-Z-Z

END