

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023
(Fourth Semester)

Branch - FOODS & NUTRITION

NUTRITION & ENVIRONMENTAL HEALTH

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

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

- 1 _____ is a systematic description of the magnitude of the effect of a drug as a function of dose
(i) dose effect (ii) dose response
(iii) dose (iv) none of the above
- 2 Monosodium glutamate is a _____ substances.
(i) psycho active (ii) chemical preservative
(iii) food colorant (iv) all of the above
- 3 The bacterium burkholderia cocovenans produces toxins
(i) toxoflavin and bongkreki acid (ii) aflatoxin
(iii) ergot alkaloids (iv) arsenic
- 4 Histamine poisoning or scombroid occurs from
(i) food additives (ii) potatoes
(iii) microbial (iv) aquatic toxins
- 5 Which chemical prevents botulism in processed meat?
(i) Sulphates (ii) sodium benzoate
(iii) Sodium nitrate (iv) MSG

SECTION - B (15 Marks)

Answer ALL Questions

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

- 6 a State xenobiotics and its excretion.
OR
b Produce a short note on carcinogens.
- 7 a Show few natural toxins in food and its ill effects.
OR
b Explain vaso-active substances.
- 8 a Discuss the problems of water pollution and its effect on toxicity of food.
OR
b Determine the role of metal toxicity in human health.
- 9 a Critisize on few pesticidal toxicants.
OR
b Discuss on food additives as toxins.
- 10 a Solve drug abuse through proper treatment.
OR
b Explain contamination by packaging materials.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Enumerate on mechanism and phases of toxic action of drugs.
OR
b Elaborate on mutagenesis and teratogenesis.
- 12 a Analyze natural toxins in food.
OR
b Construct the role of microbial pollutants in water pollution.
- 13 a Elucidate on pesticides as contaminants.
OR
b Determine the safe level of use, its toxicity and biological effect of food additives.
- 14 a Elaborate on treatment of mushroom toxicity.
OR
b Explain fungal contaminants as toxins.
- 15 a How solid wastes are disposed? Explain.
OR
b Determine the source and toxic effect of any one environmental contaminants.

Z-Z-Z

END