

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023
(First Semester)

Branch - ENVIRONMENTAL SCIENCE

ENVIRONMENTAL TOXICOLOGY AND HEALTH

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. Chronic toxicity refers to
 - (i) Adverse effects over short time
 - (ii) Immediate effects
 - (iii) Adverse effects over fixed time
 - (iv) Adverse effects over prolonged time
2. Teratogens are substances which induce.....
 - (i) Mutations
 - (ii) Birth defects
 - (iii) Physical illness
 - (iv) None of these
3. Increased toxicity of chemicals when exposed in combinations refers to
 - (i) Synergism
 - (ii) Additive
 - (iii) Antagonism
 - (iv) Potentiation effects
4. Byssinosis leads to ...
 - (i) Kidney tissue damages
 - (ii) Lung tissue damages
 - (iii) Pancreatic tissue damage
 - (iv) Endocrine tissue damage
5. EPA stands for...
 - (i) Environmental Protection Agency
 - (ii) Ecological Protection Agency
 - (iii) Evolutionally Protection Agency
 - (iv) Economical Protection Agency

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a) What is meant by variation in toxic response?
OR
- b) Describe about classification of toxic agents.
7. a) Give a short note on hydrocarbons as eco toxicants.
OR
- b) Explain in brief plasticizers and their sources.
8. a) What is NOEL and NOAEL?
OR
- b) Elucidate on dose response curve.
9. a) Define and explain briefly about siderosis.
OR
- b) Write short note on hepatotoxicity.
10. a) Elucidate WHO and role in public health management.
OR
- b) Explain in few words about hazard level and management.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. a) Write elaborately about types of toxicity with adverse effects as examples.
OR
b) Describe in detail about route of Eco-toxicant entry.
12. a) Write an essay on 'Toxins and effects on nucleic acids.'
OR
b) What are endocrine disrupters? Explain the side effects associated with example.
13. a) Give detailed note on toxicity tests for environmental samples.
OR
b) Elaborate on biomarkers for environmental toxicity.
14. a) Describe in detail about neurotoxins with example and side effects.
OR
b) Define Bagassosis, chances of exposure, disease symptoms and possible prevention measures to be adopted.
15. a) Explain in detail about environmental health agencies of India.
OR
b) Explain in detail about WHO and risk assessment guidelines.

Z-Z-Z END