

SEM	SET	PAPER CODE	TITLE OF THE PAPER
IV	2013	12PBI4115	ENVIRONMENTAL TOXICOLOGY

SECTION – A**Answer all the questions:****20 x 1 = 20****Choose the correct answer:**

- _____ exposure are generally classified as short term exposure to a relatively high concentration of toxin.
 - Instant
 - acute
 - chronic
 - immediate
- Mutagens identified via Ames test are also possible _____.
 - Pyrogen
 - Carcinogen
 - Antibody
 - Immunogen
- _____ is the SI unit of radioactivity.
 - Becquerel
 - curie
 - Rad
 - Gray
- _____ layer filters the incoming uv radiations from the sun.
 - atmospheric
 - tropospheric
 - ozone
 - Exospheric
- _____ is an efficient wet thermal disinfection process.
 - Incineration
 - Autoclaving
 - Microwave
 - Disinfectants.

Fill in the blanks:

6. _____ toxicants cause abnormalities in a developing fetus.
7. _____ drugs are difficult to eliminate.
8. Low level ionizing radiation in living cells results in the formation of _____.
9. The most important ore of mercury is _____.
10. _____, when burnt produces dioxin and acid gas.

State True or False:

11. Theobromaine present in chocolate might alter gene expression.
12. Xenobiotics are substances foreign to the body.
13. DDT is an organochlorine pesticide.
14. Heavy metal accumulation in the soil results in phytotoxicity.
15. Garbage refers to the putrecible component of solid wastes.

Answer in one or two sentences:

16. Expand ED₅₀ and LD₅₀.
17. What are mutagens?
18. What are herbicides?
19. Define Ore.
20. Define incineration.

SECTION – B

Answer all the questions:

5 x 4 = 20

21. a. Explain in brief the factors influencing toxicity.

OR

- b. Bring out the procedures involved in testing acute toxic effects.

22. a. Write a short note on in vitro toxicity testing.

OR

b. Give a brief account on DNA repair assays.

23. a. Explain in brief the biological effects of radiation.

OR

b. Write short notes on plant toxins.

24. a. Give a short note on the common air pollutants and their sources.

OR

b. Describe in detail the measures to control air pollution.

25. a. Write a note on the technology used for hospital waste management.

OR

b. Describe the modalities adopted in collection, storage & transport of solid waste.

SECTION – C

Answer any FOUR questions:

4 x 15 = 60

26. Describe in detail the toxicants dose-response relationship.

27. Explain with suitable examples, the phase II xenobiotic metabolism.

28. Describe in detail the working of pesticides.

29. Explain in detail the environmental and health hazards of mercury.

30. Enumerate and explain the technologies available for solid waste management.
