

15P220

(Pages: 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JULY 2016**

(CUCSS - PG)

(Environmental Science)

**CC 15P ES2 C10 - ENVIRONMENTAL TOXICOLOGY AND BIOCHEMISTRY**

(2015 Admission)

Time: Three Hours

Maximum: 36 Weightage

**I.** Answer *all* questions.

1. MIC
2. Differentiate mutagens and teratogens.
3. Differentiate acute and chronic exposure.
4. Differentiate EC50 and EC10
5. Dose response curve
6. hormone mimics
7. Organochlorine pesticides
8. Long term effect
9. Biomagnification
10. bio-indicators
11. Toxins in industrial effluents
12. Hazardous wastes
13. Incineration
14. Aerobic treatment

**(14 x 1 = 14 weightage)**

**II.** Answer *any seven* questions.

15. Explain the major water-borne diseases
16. Explain the diseases related to industrial pollution
17. Explain two instruments used in water quality monitoring
18. Route and transport of Hg
19. Explain the Biochemical effects of environmental contaminants
20. Effects of toxic chemicals on nucleic acids
21. Explain untreated sewage and river action plans in India
22. Effects of environmental radiations on humans
23. Explain respiratory diseases and pollutants
24. Explain Food poisoning

**(7 x 2 = 14 weightage)**

III. Answer any two questions.

25. Explain biochemical effects of toxicants

26. Explain the Fate and global transport of pollutants

27. Explain the major classes of environmental pollutants that affect ecosystem function

28. Explain the different methods of Toxicity Testing

(2 x 4 = 8 weight)

\*\*\*\*\*