Name: Reg. No..

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2017

(Regular/Supplementary/Improvement)

(CUCSS-PG)

CC15P ES1 C04 - ENVIRONMENTAL POLLUTION AND POLLUTION ABATEMENT

(Environmental Science)

(2015 Admission onwards)

Time: Three Hours

Maximum:36 Weightage

and prob A TRAY ind waste management in India

Answer all questions. Each question carries 1 weightage

- 1. Bag filters.
- 2. Point and Non point sources of pollution.
- 3. PoPs
- 4. Hazardous Wastes.
- 5. Wind roses.
- 6. SAR
- 7. Explain potential hazards of tannery effluents.
- 8. Trans-boundary air pollution.
- 9. Define PM. Mention the organic and inorganic species in PM.
- 10. Differentiate transparency and turbidity.
- 11. Activated Sludge Process.
- 12. Heavy metal pollution.
- 13. Differentiate ELR and DALR.
- 14. Fumigation.

 $(14 \times 1 = 14 \text{ weightage})$

PART B

Answer any seven questions. Each question carries 2 weightage.

- 15. Differentiate pollution and contamination.
- 16. Write a short note on ozone layer depletion.
- 17. Comment on anaerobic stabilization units in wastewater treatment.
- 18. Explain the sources and classification of air pollutants.
- 19. Describe the determination of Ca²⁺ and Mg²⁺ hardness in water.
- 20. Write a short note on pre-concentration techniques of water samples.
- 21. Comment on heavy metal pollution in soils.
- 22. Write a short note on major air pollution disasters.
- 23. Describe the causes and impacts of global warming in developing countries.

24. Explain photochemical smog formation and its effects.

 $(7 \times 2 = 14 \text{ weightage})$

(Regular Y TART mary/Improvement)

Answer any two questions. Each question carries 4 weightage.

- 25. Write an essay on noise pollution and its impacts on human beings and animals.
- 26. How meteorological factors affect the dispersion of air pollutants? Explain plume behaviour with illustration.
- 27. Comment on prospects and problems in solid waste management in India.
- 28. Describe the industrial process and their pollution potentials of any two of the following industries in India.
 - a) Paper and Pulp Industry.
 - b) Tannery.
 - c) Petroleum refining.
 - d) Thermal power plants.

 $(2 \times 4 = 8 \text{ weightage})$

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(14 x 1 = 14 weightage)

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