## 469/Env.Sc. UG/4th Sem/ENVS-H-CC-L-10/22

## U.G. 4th Semester Examination - 2022

## ENVIRONMENTAL SCIENCE [HONOURS]

Course Code: ENVS-H-CC-L-10 (Environmental Pollution and Human Health)

Full Marks : 40 Time :  $2\frac{1}{2}$  Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

- 1. Answer any **five** of the following:  $2 \times 5 = 10$ 
  - a) What is ocean acidification?
  - b) Distinguish between sewage and sludge.
  - c) Mention the impacts of sound at 120-150 dB.
  - d) What are the advantages of membrane bioreactor?
  - e) Plastic is a potent soil contaminant—Justify.
  - f) What is methemoglobinemia?
  - g) Define photochemical smog.
  - h) What is fluorosis?
- 2. Answer any **two** of the following:  $5 \times 2 = 10$ 
  - a) State the role of chelating agents in detoxification.

[Turn Over]

- b) Briefly describe the working principle of an effluent treatment plant with a schematic diagram.
- c) State the impact of marine pollution on coral reefs in ocean.
- d) Discuss the functional mechanism of trickling filter in wastewater treatment.
- 3. Answer any **two** of the following:  $10 \times 2 = 20$ 
  - a) Distinguish between pollutant and contaminant. What are criteria pollutants? What is air quality index? Mention the adverse effects of VOCs on human health. 2+2+2+4
  - b) What is meant by soil quality degradation? Mention different measures to control soil pollution. 2+8
  - c) What is eutrophication? State its adverse effects on aquatic ecosystem. Cite three measures to control eutrophication. 2+4+4
  - d) Write short notes on the following:

5+5=10

- i) Fluidizedbed reactor
- ii) Clean technologies for radioactive pollution control

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