

2021

ENVIRONMENTAL SCIENCE — HONOURS

Paper : CC-13

(Environmental Pollution and Human Health)

Full Marks : 50

The figures in the margin indicate full marks.

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

1. Answer **any five** questions : 2×5
 - (a) What are the differences between primary and secondary air pollutants?
 - (b) State the importance of DO as a water quality parameter.
 - (c) Define partition coefficient.
 - (d) What do you mean by 'air quality index'?
 - (e) Name a water borne disease along with the causative pathogen.
 - (f) Define biopesticide.
 - (g) State two sources of groundwater pollution.
 2. Write short notes on (**any two**) : 5×2
 - (a) Acute Radiation Syndrome
 - (b) Trickling filter
 - (c) Ganga Action Plan
 - (d) Acid mine drainage.
 3. Answer **any three** questions :
 - (a) Define thermal pollution. Name two main sources of surplus heat on aquatic environment. What are the effects of heated discharges on aquatic life? 2+2+6
 - (b) Briefly discuss the major indoor air pollutants and their health effects. 10
 - (c) State the importance of marine resources. Mention major causes behind the demise of coral reefs. Discuss mitigatory measures for coastal pollution. 2+3+5
 - (d) Define Leq. Briefly discuss the effects of noise pollution on human health. 2+8
 - (e) What are the causes of soil pollution and degradation? State the problems of soil acidity and alkalinity. Discuss the control strategies of such degradation. 3+3+4
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