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**Total Pages: 03** 

771205

## May 2024

## M.A. (JMC) (Second Semester) ENVIRONMENTAL POLLUTION AND HUMAN HEALTH (AES-202B)

Time: 3 Hours

[Maximum Marks: 75

Note: It is compulsory to answer all the questions (1.5 marks each) of Part A in short. Answer any *four* questions from Part B in detail. Different sub-parts of a question are to be attempted adjacent to each other.

## Part A

- 1. Briefly answer the following questions:
  - a) Define non-persistent pollutants.
- (b) How are organometallic compounds hazardous to the environment? 1.5
  - (c) Enlist the various sources of radioactive pollution. 1.5
  - (d) What kinds of non-auditory impacts are generated from noise pollution? 1.5
    - e) How does solubility product influence the transfer of pollutants?

1.5

(f)	What are the possible sources responsible	4	<b>4.</b> (a)	Define Noise Pollution. Briefly explain, how
(-)	for reef degradation? 1.5			it can be controlled? 7.5
(g)	What is thermal pollution? 1.5		(b)	Classify air pollutants based on different
(h)	Define Eutrophication. 1.5			backgrounds. Briefly explain the kinds of
(i)	What are Oxidation Ponds?			health impacts imposed by air pollutants.
(j)	How does the implementation of CNG	Ф		7.5
0)	contribute to the reduction of pollutants ?	5	5. (a)	Explain, how oil spillage happens in oceans
	1.5			and what are their impact on marine environment.
	Part B		(b)	Give a brief account of different impacts of
2. (a)	Differentiate between Biotransformation and			water contaminants on human health. 5
	Bioaccumulation. Briefly explain their roles		(c)	What is marine pollution and how can it be
	in imposing adverse impacts of pollutants			controlled ? 5
	on human health. 7.5	6	. (a)	How does the Upflow Anaerobic Sludge
(b)	What is Soil Pollution? Discuss the various			Blanket (UASB) Reactor contribute to the
	adverse impacts of soil pollution on both		,	treatment of effluent? 5
	biotic and abiotic components and explore		(b)	Give a detailed account of the objectives.
	methods to control these impacts. 7.5			strategies, and outcomes of the Yamuna
3. (a)	What are Pollutants? Give a detailed account			Action Plan (YAP). 10
	of various classifications of pollutants based	7	. Writ	· · · · · · · · · · · · · · · · · · ·
	on different criteria. 7.5		follo	owing: $5\times 3=15$
(b)	Give a brief account of sources and effects		(a)	Radioactivity decay
	of indoor air pollutants on human health.		(b)	Air quality index
	7.5		(c)	Coastal zone management
			(d)	Bio-scrubbers.
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