#### Roll No.

Total Pages : 3

# 003406

## May 2023

## B.Tech. (CE/CE(DS)/CSE(AIML))/CE

## (Hindi Medium)) 4th Semester

#### **ENVIRONMENTAL SCIENCES (MC-03/MCH-03)**

Time : 3 Hours]

[Max. Marks: 75

#### Instructions :

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

### PART-A

## 1. Write a short note on the following :

(a)	Green marketing.	$(1^{1}/_{2})$
(b)	Eutrophication.	$(1^{1}/_{2})$
(c)	Ocean Thermal Energy Conservation (OTEC).	$(1^{1}/_{2})$
(d)	Ecological succession.	$(1^{1}/_{2})$
(e)	Biogeographic Zones of India.	$(1^{1}/_{2})$
(f)	Hotspot of biodiversity.	$(1^{1}/_{2})$
(g)	Endemic species.	$(1^{1}/_{2})$

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(h)	Sanitary landfills.	$(1^{1}/_{2})$
(i)	Sustainable Development.	$(1^{1}/_{2})$
(j)	Watershed Management.	$(1^{1}/_{2})$

## PART-B

- 2. (a) How would environmental awareness help to protect our environment, explain briefly? (5)
  - (b) Write an explanatory note on the multidisciplinary nature of environmental science. Briefly describe, how computer engineering plays an important role in conservation and protection of environmental quality? (10)
- 3. (a) Give a detailed account of various impacts of traditional and modern agricultural practices on environment.  $(7^{1}/_{2})$ 
  - (b) What are the environmental impacts associated with mineral extraction? Briefly explain the remedial measures to reduce the impacts of mining.  $(7^{1}/_{2})$
- 4. (a) Define ecosystem. Give a detailed account of structural and functional attributes of an ecosystem. (10)
  - (b) Why the concept of food web is more realistic than the concept of food chain? (5)
- 5. (a) What do you understand by the term biodiversity? Discuss the concept of biodiversity at different hierarchical levels.  $(7^{1}/_{2})$

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(b) Elucidate different approaches of biodiversity conservation along with their merits and demerits.

 $(7^{1}/_{2})$ 

6. (a) What is water pollution? Briefly explain the effects and various control measures of water pollution.

 $(7^{1}/_{2})$ 

- (b) What are wastelands. Give a detailed account of various methods or techniques for reclamation of wastelands.  $(7^{1}/_{2})$
- 7. Write short note on any three of the following :
  - (a) Environmental ethics.
  - (b) Life expectancy.
  - (c) Role of IT in environmental and health.
  - (d) Universal Declaration of Human Rights. (5×3=15)

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