

END TERM EXAMINATION**SECOND SEMESTER [B.TECH] JUNE 2024****Paper Code: BS-110****Subject: Environmental Studies****Time: 3 Hours****Maximum Marks: 60****Note: Attempt any five questions in all including Q. No.1 which is compulsory. Select one question from each unit.**

- Q1 Attempt all questions:
- (a) What is meant by eutrophication? (2)
 - (b) What is AIDS? What is its causative agent? (2)
 - (c) What is meant by the following terms?
 - (i) Thermal pollution (2)
 - (ii) Ecological succession (2)
 - (iii) Population explosion (2)
 - (d) Define an ecosystem. What are its types? (2)

UNIT-I

- Q2
- (a) What is Environmental Science? Discuss the multidisciplinary nature of environmental science and its importance. (4)
 - (b) What is Chipko Movement? By whom and when was it started? Elaborate its social/environmental impact. (4)
 - (c) What is the difference between?
 - (i) Biopiracy and Bioprospecting
 - (ii) Endangered species and endemic species
- Q3
- (a) Comment on "India as a Mega Diversity Nation". (4)
 - (b) Difference between ex-situ conservation and in-situ conservation along with example. (4)
 - (c) Explain in detail 'phosphorous cycle' along with diagrammatic representation. (4)

UNIT-II

- Q4
- (a) Explain in detail the devices used for the control of air pollution with the help of diagrams. (4)
 - (b) What are the different processes involved in disaster management? Elaborate with the help of case study on Japan earth quake and tsunami in 2011. (4)
 - (c) What is marine pollution? What are the sources of marine pollution? (4)
- Q5
- (a) Give an appraisal on recycling and reuse of solid wastes? (4)
 - (b) Write a short note on:
 - (i) Biodegradation (2)
 - (ii) Landfill (2)
 - (c) What is radiation pollution? Explain its effects and controlling measures. (4)

UNIT-III

- Q6 (a) Explain the concept of sustainable development. How do you propose that development work progresses along with sustenance of our environment? (4)
- (b) Write a note on:
 (i) Consumerism (2)
 (ii) Kyoto Protocol (2)
- (c) What is the Environmental Impact Assessment? Explain its significance. (4)
- Q7 (a) What is the role of urbanization over environmental problems? (4)
- (b) What are the laws related to environment? State Water (Prevention) and Control of Pollution Act, 1974. (4)
- (c) What do you understand by carbon credits? What are its merits and demerits? (4)

UNIT-IV

- Q8 (a) What do you mean by population density? What are the consequences of population growth? (4)
- (b) What is waste land reclamation? Explain with the help of case study on Jatropha curcas cultivation. (4)
- (c) What are the various Women and Child welfare programmes launched by Govt? <https://www.ggsipuonline.com> (4)
- Q9 (a) What do you understand by HIV? Write the transmission mode of HIV and prevention of AIDS. (4)
- (b) What is the role of IT in environment and healthcare industry? (4)
- (c) What is the aim of Family welfare programmes? Discuss the problems of these welfare programmes. (4)

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