

ENVIRONMENTAL STUDIES**(Common to CIVIL, MECH, CSE & IT Branches)****Time: 3 Hours****Max Marks: 70**

Answer ONE Question from each Unit

All Questions Carry Equal Marks

All parts of the Question must be answered at one place

UNIT-I

1. a) Describe the multidisciplinary nature of environmental studies. 7
- b) Discuss the problems caused by dams, and benefits of constructing dams. 7

(OR)

2. a) How would environmental awareness help to protect our environment? 6
- b) What are alternate sources of energy? Describe any three of them. 8

UNIT-II

3. a) What are ecological pyramids? Explain why some of these pyramids are upright while others are inverted in different ecosystems. 7
- b) Describe various In-situ and Ex-situ measures of preservation and protection of biodiversity. 7

(OR)

4. a) What are the activities which disturb the forest ecosystem and what is the outcome of forest degradation? 7
- b) What is biodiversity? What are the various values of biodiversity? 7

UNIT-III

5. a) What are the main sources of noise pollution? Discuss its effects and control measures 8
- b) What is Hazardous Waste? Discuss various methods of safe disposal of these wastes. 6

(OR)

6. a) Mention the Four most important air pollutants- their sources and effects on man and environment. 8
- b) Classify various sources and effects of biomedical solid waste. 6

UNIT-IV

7. a) What is sustainable development and what are the primary needs of sustainable development? 7
- b) How do you define pollution as per water (prevention and control of pollution) Act 1974? What are the salient features of the Act? 7

(OR)

8. a) How ozone is formed? Write the causes and effects of ozone depletion. 8
- b) What are the goals and methodology of environmental impact assessment (EIA)? 6

UNIT-V

9. a) Explain the relation between human health and environment. Cite some examples to illustrate your answer. 7
- b) Write about your observations and main conclusions about any ecosystem which you have studied (e.g. forest, sea shore, farmlands, hilly area etc.) 7

(OR)

10. a) Explain how the growth of human population on earth is a threat to the environment. 7
- b) Summarize your finding and furnish the report on any mining site that you have visited. 7

Answer ONE Question from each Unit

All Questions Carry Equal Marks

All parts of the Question must be answered at one place.

UNIT-I

1. a) Describe the different steps in program development in detail. 7M
b) Explain operators and data types in C? 7M
- (OR)**
2. a) Write briefly about C tokens with suitable examples? 7M
b) Describe left and right shift operators with suitable code examples. 7M

UNIT-II

3. a) Explain decision making control statements with a suitable code examples . 7M
b) Write a c program for finding largest among three numbers. 7M
- (OR)**
4. a) Explain the construct 'break' in C programming language with suitable code example. 7M
b) Write a program to compute the sum of digits of a given input number. 7M

UNIT-III

5. a) Explain pass-by-value and pass-by-reference with an example programme. 7M
b) Define recursion with a suitable example? 7M
- (OR)**
6. a) Write a program to generate Fibonacci series using static storage class. 7M
b) Describe passing arrays (both 1 dimensional and 2 dimensional) to functions with suitable code examples. 7M

UNIT-IV

7. a) Define pointer-to-pointer with a suitable example programme. 7M
b) Compare and Contrast between static and dynamic memory allocation with suitable code examples 7M
- (OR)**
8. a) How can an entire structure be passed as a parameter to a function both using pass by value and pass by reference? Show with suitable code examples. 7M
b) Write a program to illustrate the usage of array of pointers and pointer to pointer as arguments in functions. 7M

UNIT-V

9. a) Describe and Compare & contrast text and binary files and list their applications. 7M
b) Write a program that opens a file in write mode & writes "Hello World!" into it. 7M
- (OR)**
10. a) Describe the following file handling functions in C 7M
i. fopen ii. fscanf iii. fread iv. fwrite
b) Write a program to merge the content of two data files into a third file. 7M