

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) Draw flowchart to print the Multiplication Table of N. and list out the advantages of flow charts **7M**
- b) What is variable? What are the rules for declaring variable? Give example. **7M**

(OR)

2. a) Explain the usage of conditional operator with example. **7M**
- b) List out different constants in c and explain **7M**

UNIT-II

3. a) Explain Different form of if Statements with example **7M**
- b) Build a program to find whether the given number is a prime or not by using control loops? **7M**

(OR)

4. a) Develop a program to find whether the given number is a strong or not by using control loops?($145=1!+4!+5!=145$) **7M**
- b) Develop a program to produce following output for given number of rows R: **7M**

```

1
2 3
4 5 6
7 8 9 10

```

UNIT-III

5. a) Write a program to merge to sorted arrays **7M**
- b) Develop a program to read two strings **str1** and **str2** from the user and then find whether the given two strings are equal or not without using **string.h** library functions. **7M**

(OR)

6. a) Explain call by value and Call by reference with example **7M**
- b) What is recursion? Write a program to find Factorial of a given Number. **7M**

UNIT-IV

7. a) Define Pointer. Differentiate Pointer variable and Ordinary variable. Explain the Operations on Pointers with an Example Program. **7M**
- b) Write a program to delete value from a list by using pointers. **7M**

(OR)

8. a) What is a Structure? How it different from array explain with example. **7M**
- b) Explain DMA functions with example. **7M**

UNIT-V

9. a) What are different types of operations on files? **4M**
- b) Write a program to read student data consisting of Id.No, Name and marks in six subjects from the keyboard, write it to a file called INPUT, again read the same data from the file INPUT, and find the total and percentage marks of each student. Display the output in tabular form. **10M**

(OR)

10. a) What are the three steps followed while accessing a file? Write a program to convert the case of alphabets in a text file. Upper case letters should be converted to lower case and vice versa **7M**
- b) Explain the fopen() function in files and illustrate the different modes of Opening a file. **7M**

AR16

CODE: 16HS1003

SET-2

**ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)**

I B.Tech I Semester Regular Examinations, December, 2016

ENVIRONMENTAL STUDIES

(Common to EEE & ECE Branches)

Time: 3 Hours

Max Marks: 70M

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UNIT-I

1. a) What is the need for public awareness and participation in the environmental education? Discuss. 6M
b) What do you mean by Deforestation? Discuss its causes 8M
(OR)
2. a) Critically discuss the benefits and negative impacts by constructing multipurpose hydroelectric projects in India 6M
b) Demonstrate how you would correlate different courses with environmental studies 8M

UNIT-II

3. a) What are the functional components of Ecosystem? 6M
b) Discuss the Bio-geographical classification of India and values of biological resources 8M
(OR)
4. a) Explain the important types and characters of a aquatic ecosystem? 6M
b) Discuss in brief the biodiversity at Global Level and National Level 8M

UNIT-III

5. a) Explain a range of solid waste disposal methods in order to manage the solid waste. 6M
b) Classify various sources and effects of biomedical solid waste. 8M
(OR)
6. a) What are the effects and causes of marine pollution 6M
b) Write notes on floods and cyclones 8M

UNIT-IV

7. a) Explain briefly about the concept of Unsustainable and Sustainable development 6M
b) Define EIA; point out the significance and various stages of EIA. 8M
(OR)
8. a) Explain the main objectives and provisions of water pollution act. 6M
b) Explain the main objectives and provisions of forest conservation act. 8M

UNIT-V

9. a) Discuss how IT is helpful to improve the human health and environment 6M
b) write the report on any mining site that you have visited 8M
(OR)
10. a) Prepare a report on your field work while visiting any municipality. 6M
b) What are different population problems 8M