

**AR13**

**Set-01**

**Code: 13HS1003**

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

**I B.Tech II Semester Regular Examinations, August-2014**

**ENVIRONMENTAL STUDIES**

**(Common to CE, ME, CSE, IT & Re Admitted EEE Candidates)**

**Time: 3 hours**

**Max Marks: 70**

**PART-A**

**Answer all questions**

**(10X1=10M)**

1. a) What do you mean by water logging?  
b) Define the term "food web".  
c) What is Biome?  
d) Define Dobson unit?  
e) What do you mean by disaster management?  
f) Define acid rain and what is the  $p^H$  value of acid rain?  
g) What are the objectives of the air (prevention and control of pollution) Act?  
h) What is EIA?  
i) List the GHGs.  
j) Define bio magnification?

**PART-B**

**Answer one question from each unit**

**(5X12=60M)**

**Unit-I**

2. a) How would environmental awareness help to protect our environment?  
b) Briefly discuss the structure of atmosphere and its characters? (6M + 6M)  
(OR)
3. a) Describe the effect on tribal people by the construction of major dam?  
b) Describe the effects of modern agriculture on environment? (6M + 6M)

**Unit-II**

4. a) Define ecosystem? Explain the major aspects of ecosystem?  
b) Describe the in – situ and ex – situ conservation of biodiversity? (6M + 6M)  
(OR)
5. a) Justify forest as a natural resource? And add a note on the importance of forest conservation?  
b) Discuss India's mega-diverse biodiversity (6M + 6M)

**Unit-III**

6. a) Explain the causes, effects and control measures of Air pollution?  
b) What is solid waste management? Explain causes, effects and control measures of urban waste? (6M + 6M)  
(OR)
7. a) Discuss different disaster management techniques during natural calamities?  
b) What is marine pollution? What are the sources of marine oil pollution? Briefly describe the pathways of oil spill in marine environment. (6M + 6M)

**Unit-IV**

8. Write short notes on (4M+4M+4M)
- (a) Watershed management
  - (b) Rain water harvesting
  - (c) Green revolution

**(OR)**

9. a) What is ozone hole? How it is formed? What are the causes of ozone hole formation?  
What remedial measures do you suggest?
- b) Write a detailed note on theory and practice of sustainability. (6M+6M)

**Unit-V**

10. a) Write about water (prevention and control of pollution) Act?
- b) Explain population growth patterns and problems in developing nations? (6M+6M)

**(OR)**

11. a) Briefly explain the role of information technology in environment?
- b) Discuss the issues in enforcement of environmental legislation? (6M+6M)

**Code: 13CS1001****ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI  
(AUTONOMOUS)****I B.Tech II Semester Regular Examinations, August - 2014****COMPUTER PROGRAMMING  
(Common to EEE & ECE Branches)****Time: 3 Hours****Max Marks: 70****PART-A****Answer all questions****[10X1=10M]**

1.
  - a) Why c language is called middle level language ?
  - b) Define a user defined data type?
  - c) Define a user defined function?
  - d) write a c statement to swap two numbers using ^ operator?
  - e) Define typecasting?
  - f) Define a symbolic constant?
  - g) What are the rules for naming an identifier?
  - h) Define a union?
  - i) What is the output of the following C program?

```
main ()
{
    int a=10,b=15,c;
    c=++a + ++b;
    printf("%d",c);
}
```

- j) Write C statement to find maximum of three numbers using ternary operator?

**PART-B****Answer one question from each unit****[5X12=60M]****Unit-I**

- 2)
  - a) Define an algorithm and a flowchart? Write an Algorithm and draw a flowchart for the given number is perfect or not?
  - b) Explain the basic structure of a c program with an example program. [6M+6M]
- OR
- 3)
  - a) Explain in detail about the various built in data types in C language.
  - b) Explain about binary operators with an example programs. [6M+6M]

**Unit-II**

- 4)
  - a) Explain about different control statements available in c language..
  - b) Write a program to find the roots of a quadratic equation.

**[6M+6M]****OR**

- 5) a) Write a C Program to print the following output using nested loops.

```
1
12
1 2 3
1 2 3 4
1 2 3 4 5
```

- b) Demonstrate the usage of a go to statement with an example program. [6M+6M]

### **Unit-III**

- 6) a) What is an array? Explain declaration and initialization of 1D array with example?  
b) Write a c program to concatenate two strings without using string handling functions. [6M+6M]

OR

- 7) a) What is a recursion? Write a recursive program to print Fibonacci series?  
b) Explain in detail about parameter passing techniques. Explain with an example Program? [6M+6M]

### **Unit-IV**

- 8) a) Define a structure. Write a program that can illustrate the structure initialization.  
b) Write a program to illustrate the array of structures? [6M+6M]

OR

- 9) a) Write a 'C' program to illustrate the use of pointers in arithmetic operations.  
b) Explain about dynamic memory allocation? Write a program that uses a table of integers whose size will be specified interactively at run time. [6M+6M]

### **Unit V**

- 10) a) Explain the following functions  
i) fopen() ii) fgetc() iii) getw() iv) fprintf()  
b) Explain about various modes of the file that can be operated from C. [6M+6M]

OR

- 11) Write a program to copy content of one file into another file by using command line arguments. [12M]

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