AR13

CODE: 13HS1003 **SET-1**

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)
I B.Tech II Semester Supplementary Examinations, June-2017
ENVIRONMENTAL STUDIES
(Common to CE, ME, CSE & IT)

Time: 3 Hours **Max Marks: 70**

PART-A

ANSWER ALL QUESTIONS **[1 x 10 = 10 M]**

1. a) Sunder Lal Bahuguna
   b) Confined Aquifer
   c) Undernourishment
   d) Soil erosion
   e) Biological Magnification
   f) Westernghats
   g) Minamata disease
   h) Holocaust
   i) Demographic transition
   j) Rain Water harvesting

PART-B

Answer one question from each unit **[5x12=60M]**

UNIT-I

2. (a) Why is it necessary to create environmental awareness? **6 M**
   (b) Define weather and climate? What are the Environmental components? **6 M**

(OR)

3. (a) What is overgrazing and discuss the major causes of deforestation? **6 M**
   (b) Explain the effects of modern agriculture. **6 M**

UNIT-II

4. (a) Define ecosystem and write the components of ecosystem. **4 M**
   (b) Discuss the different stages of xerarch? **4 M**
   (c) Explain the salient features of pond ecosystem. **4 M**

(OR)

5. (a) What is genetic diversity and what are the threats to biodiversity? **6 M**
   (b) Define biosphere reserve and give the examples of the hotspots present in India. **3 M**
   (c) Discuss the causes for man-wildlife conflict. **3 M**

UNIT-III

6. (a) Define air pollution and write the causes for air pollution. **6 M**
   (b) Briefly describe the sources and effects of noise pollution. **6 M**

(OR)

7. (a) Describe the different methods of solid waste management. **6 M**
   (b) Explain folds, landslides and cyclones. **6 M**

UNIT-IV

8. (a) Global warming **4 M**
   (b) Waste land reclamation practices. **4 M**
   (c) Salient features of wild life protection Act, 1972. **4 M**

(OR)

9. (a) Write the effects of Greenhouse gases? **4 M**
   (b) Watershed management practices. **4 M**
   (c) Rio earth summit? **4 M**

UNIT-V

10. (a) Discuss the various factors influencing the population growth rate. **6 M**
    (b) Explain about communicable diseases among human beings.. **6 M**

(OR)

11. (a) Discuss the remedial measures you would suggest to reduce the water pollution in your surrounding industrial areas? **4 M**
    (b) List out the status of your local ecosystems. **4 M**
    (c) What measures can you suggest to control the salinity problems? **4 M**

AR13

Code: 13CS1001 **SET - 2**

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)
I B.Tech II Semester Supplementary Examinations, June-2017
COMPUTER PROGRAMMING
(Common to ECE & EEE)

Time: 3 Hours **Max Marks: 70**

PART-A

ANSWER ALL QUESTIONS **[1 x 10 = 10 M]**

1. a) Define Flowchart. Write symbols used in Flowcharts.
   b) What are Computer Languages?
   c) Define Statement. List the types of Statements used in C.
   d) What is the output of the following program?

```
void main()
 {
   int x=10;
   clrscr();
   printf(" %d %d %d", x++, ++x, x++);
 }
```

   e) What is nested if statment?
   f) What will be the output of the following program?

```
union demo
{
        int x;          float y;                char z;
}st;
main()
{
        printf("%d bytes",sizeof(st));
}
```

   g) What is the advantage of recursion over a loop?
   h) Explain about Function Pointers.
   i) Write the difference between an Array and a Variable.
   j) Differentiate between Text and Binary Files.

PART- B

Answer one question from each unit [5X12=60M]

UNIT - I

2) a) Define an Algorithm. Explain about the three Categories of statements in Algorithms.
   b) How do you create and run a C program? Explain in detail. [6M+6M]

(OR)

3) a) Explain Tokens in C.
b) Write a program in C to exchange the values of two variables without using temporary variable. [8M+4M]

UNIT - II

4) a) What is a Control Statement? Explain about the different iterative control statements with Examples [12M]

(OR)

5) a) Explain the difference between else if and switch statements with examples.
b) Write a program to print the Armstrong number series using nested loops. [7M+5M]

UNIT - III

6) a) What is a Storage Class? Explain about the different Storage Classes with examples.
b) Write a program to print Fibonacci Series using a Recursive Function. [8M+4M]

(OR)

7) a) What is a String? Explain about String Handling functions with examples.
b) Write a program to print the sum of all elements of a 3x3 matrix.
[6M+6M]

UNIT - IV

8) a) Explain how a pointer can point to an Array and a Pointer with example.
b) Explain about the Dynamic Memory Allocation functions with example. [6M+6M]

(OR)

9) a) Explain how the memory of a structure can be pointed by a pointer with example.
b) Write a program for employee payroll processing (such as calculating Allowances, Deductions, Gross and Net Salary) using Nesting of Structures for Employee Data.
[4M+8M]

UNIT - IV

10) a) Explain the different File operations in C Programming.
b) Write a program to convert the case of every vowel from Lower to Uppercase.
[7M+5M]

(OR)

11) a) Explain the following.
i) fseek() ii) ftell() iii) feof() iv) ferror()
b) Write a program to print all occurances of a given string within a file. [8M+4M]