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Code: 13HS1003 **SET-1**

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)
I B. Tech II Semester Regular / Supplementary Examinations, May- 2016
ENVIRONMENTAL STUDIES
(Common to CE, MECH, CSE & IT)

Time: 3 hours **Max Marks: 70**

PART – A

Answer all questions **[10 x 1=10M]**

1. a) Biosphere
   b) Afforestation
   c) Succession
   d) Endemic species
   e) Land degradation
   f) food web
   g) Sustainable development
   h) cyclone
   i) acid rain
   j) Urbanization

PART-B

Answer one question from each unit **[5 x 12=60M]**

UNIT-I

2. a) Explain about multidisciplinary nature of the subject environmental studies?

   b) Critically discuss the composition of the lithosphere and its role? [6M + 6M]

(OR)

3. a) What do you mean by Deforestation? Discuss its causes.
   b) Define energy and explain various merits and demerits in using non-renewable energy resources? [6M + 6M]

UNIT-II

4. a) Enumerate some characteristics of an Ecosystem.

   b) Discuss the Bio-geographical classification of India and values of biological resources [4M + 8M]

(OR)

5. a) Explain the important types and characters of a desert ecosystem?

b) Discuss in brief the biodiversity at Global Level and National Level also. [6M + 6M]

UNIT-III

6. a) Define pollution, write the different disposal methods of municipal solid waste?

b) Discuss different effects of water pollution on man and materials? [6M + 6M]

(OR)

7. a) Explain about the sources and effects of biomedical waste?

b) Write about the various ways of Solid Waste Management. [6M + 6M]

UNIT-IV

8. a) Define sustainable development and explain urban energy related problems?

b) What is rehabilitation and explain the watershed management to conserve water? [6M + 6M]

(OR)

9. a) Write notes on Floods
b) Nuclear holocaust with case study?
c) Provisions of EPA-1986? [4M + 4M + 4M]

UNIT-V

10. a) Explain about consumerism and waste products.

b) Role of IT to improve environmental quality? [6M + 6M]

(OR)

11. a) Prepare a document for your visited any polluted site and give your conclusions
b) Rise of urban slums and their problems?
c) How does the value education help the environment? [4M + 4M + 4M]

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13CS1001

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)
I B. Tech II Semester Regular / Supplementary Examinations, May- 2016
COMPUTER PROGRAMMING
(Common to ECE & EEE)

Time: 3 hours **Max Marks: 70**

PART-A

Answer all questions **[10 X 1 = 10M]**

1. a) Point down the differences between an **algorithm** and a **flowchart**.
   b) Determine the value of the following logical expression if a=5,b=10 and c=-6
   a>b && a<c
   c) Justify "Using goto statement is not always a good programming practice".
   d) In what ways does a **switch** statement differ from an **if** statement?
   e) Mention one limitation of using **getchar** and **scanf** functions for reading strings
   f). Distinguish between **Global** and **Local** variables.
   g) How is a pointer initialized?
   h) Write the syntax of nested structure
   i) How does an append mode differ from a write mode?
   j) Explain the general format of **fseek** functions.

PART-B

Answer one question from each unit **[5 X 12=60]**

UNIT - I

2. a) Explain the program development steps in C with a neat diagram.
   b) Write an algorithm and draw a flowchart to find the sum of the even numbers between 1 and 50. [6M + 6M]

(OR)

3. a) Explain in detail about different types of operators available in C language.
   b) What is type conversion? Differentiate between implicit and explicit type conversions. [7M + 5M]

UNIT - II

4. a)Write a program to determine and print the sum of the following harmonic series for a given value of n:
   1+1/2+1/3+.....+1/n
   b) Explain the use of 'while' and 'for' statements with example. [6M + 6M]

(OR)

5. a) Write a program using a do--while loop to calculate and print the first m fibonacci numbers.
   b) Write a program to produce the following form of Floyd's triangle

```
1
0 1
1 0 1
0 1 0 1
1 0 1 0 1
```

[6M + 6M]

UNIT – III

6. Write a C program for Matrix Multiplication by defining functions: readMatrix, writeMatrix, multiplyMatrix and DisplayMatrix. [12M]

(OR)

7. What are the various parameter passing mechanisms (call by value and reference)? Explain with C programs. [12M]

UNIT – IV

8. a) Explain how arrays are related to pointers. Give an example
   b) If m and n have been declared as integers and p1 and p2 as pointers to integers, then find out the errors, if any, in the following statements.
   i. p1 = &m; ii. p2 = n; iii. m=p2-p1; iv. *p1 = &n; [4M + 8M]

(OR)

9. a) Distinguish between structures and union with example
   b) Write a C program using structure to create a library catalogue with the following fields; Access number, author's name. Title of the book, year of publication, publisher's name. [6M + 6M]

UNIT – V

10. a) What are the differences between buffered and unbuffered file I/O functions?
    b) Write a C program to simulate DOS TYPE command. [4M + 8M]

(OR)

11. a) Explain about various file handling functions in C with examples.
    b) Write a program to copy the contents of one file to another using file handling functions. [6M + 6M]

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