

Code: 13CS1001**ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)****I B.Tech II Semester Regular / Supplementary Examinations, July-2015****COMPUTER PROGRAMMING****(Common to ECE & EEE)****Time: 3 Hours****Max Marks: 70****PART – A****Answer all questions****[10X1=10M]**

1.

- (a) In C all functions except *main* () can be called recursively. (True/False)
- (b) Write down all the data types that a function can return?
- (c) A function may have any number of return statements each returning different values.
(True/False)
- (d) Which character is used to represent the end of a string?
- (e) Write a library function with correct syntax for copying a string A into B.
- (f) What will be the value of *may*, for the following declaration? `enum day={jan=1, feb=4, april, may}`
- (g) The increment operators are used in all type of variables including *int* and *char*. (True/False)
- (h) Two structure variables can be added using + operator. (True/False)
- (i) Which functions are used to determine square root of a number?
- (j) What is dynamic memory?

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

- 2. (a) Write an Algorithm and draw a flowchart for finding greatest element from a list of elements?
- (b) Demonstrate Bit operations and Boolean logic with suitable examples. [6M+6M]

OR

- 3 (a) Write down different types of operators in C with suitable examples.
- (b) Draw a flowchart to determine the sum and average of n numbers entered from the keyboard. [6M+6M]

Unit - II

- 4 (a) Write a C program using *if* statement to test whether a given character *ch* matches with *ch1*, *ch2* or *ch3*.
- (b) Write a program to accept 'n' numbers from the keyboard and calculate the sum of odd numbers and sum of even numbers in the list. [6M+6M]

OR

- 5 (a) Write a C program using *switch* statement to perform the operation such as, given a month number, print the name of that month.
- (b) Explain for loop with suitable example [6M+6M]

Unit-III

6. (a) Define recursion. Write the program to find the factorial of given number using recursion.
(b) Write down a program to determine multiplication of any two matrices. [6M+6M]

OR

7. (a) Write a recursive function of any one sorting method (that you know). Write a complete program by incorporating the recursive function.
(b) Write down a program to test whether a given matrix is a unit matrix or not. [6M+6M]

Unit-IV

8. (a) An array **C** has n elements. Write a program using pointers to compute the sum of all *odd indexed* elements from the array **C**. Use pointer to access the elements from the array **C**.
(b) Write a C program to initialize the data of several employees and print it in a tabular format. Use function *emp_print* to print the data of a single employee. [6M+6M]

OR

9. (a) Define a structure that can describe a hotel in a city. The structure *hotel* has members that include the name, address, grade, average room charge, and number of rooms. Write the program to read and display data of hotel.

- (b) Explain in detail about array of structure . [6M+6M]

Unit V

- 10 (a) Write a program to convert the contents of a given file into upper case and display them.
(b) Create a data file *DATA1* containing the list of students and their corresponding names, roll numbers and branches. Write a program to produce a second file *DATA2* which holds the data of the students whose roll numbers are odd. [6M+6M]

OR

- 11 (a) Write a program to merge the contents of two files into third file.
(b) Explain in detail about file operations. [6M+6M]

AR13

SET-01

Code: 13HS1003

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

I B.Tech II Semester Regular / Supplementary Examinations, July-2015

**ENVIRONMENTAL STUDIES
(Common to CE, ME, CSE & IT)**

Time: 3 hours

Max Marks: 70

PART – A

Answer all questions

[10X1 = 10M]

1. a) C.S.E.
b) Earth day
c) Primary pollutant
d) Pioneer community
e) Green building
f) Hot spots
g) Blue baby syndrome
h) Wildlife act
i) Sunderlal Bahuguna
j) Landfill

PART – B

Answer one question from each unit

[5X12 = 60M]

Unit – I

2. a) Define biomagnification and discuss effects of fertilizers and pesticides on human health.
b) What is sustainable development? Write a note on “role of an individual in conservation of natural resources”. **[6M + 6M]**

(OR)

3. a) What is soil erosion? Discuss various environmental impacts of over exploitation of mineral resources
.
b) Write a brief note on multidisciplinary nature of environmental studies. **[6M + 6M]**

Unit – II

4. a) Write in detail about ecological succession.
b) Explain about “India as a mega diversity nation”. **[6M + 6M]**

(OR)

5. a) Define foodweb and explain the function of forest ecosystem.
b) Discuss endangered species and endemic species with examples. [6M + 6M]

Unit – III

6. a) Define pollutant and discuss various sources of air pollution.
b) Explain in detail about biomedical waste disposal methods. [6M + 6M]

(OR)

7. a) What is B.O.D? Draw flow diagram of wastewater treatment plant.
b) List out various sources and effects of noise pollution. [6M + 6M]

Unit – IV

8. a) What is rehabilitation? Explain about watershed management.
b) Discuss about E.I.A. methodologies. [6M + 6M]

(OR)

9. a) Discuss the causes and effects of ozone layer depletion.
b) Write a note on water (prevention and control of pollution) act. [6M + 6M]

Unit – V

10. a) Write a report on local ecosystem.
b) Discuss the role of I.T. on human health. [6M + 6M]

(OR)

11. a) Discuss about variation of population among different nations.
b) Explain your view about relation between “Environment and Human health”. [6M + 6M]
