

AR16

CODE: 16CS1001

SET-2

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

I B.Tech I Semester Supplementary Examinations, January-2019

COMPUTER PROGRAMMING

(Common to CE, ME, CSE & IT)

Time: 3 Hours

Max Marks: 70

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) Distinguish between machine, assembly, low-level and high-level languages. 7M
b) Explain relational and logical operators with examples. 7M
(OR)
2. a) Explain the data types in C language 7M
b) What is associativity? Explain operator precedence. 7M

UNIT-II

3. a) Explain in details about multi-way selection statements with example. 7M
b) Explain different looping statements with syntax and examples. 7M
(OR)
4. a) Differentiate between if statement and if-else statement with suitable examples and proper syntax 7M
b) Write a C program to accept an integer number and print the sum of the digits. 7M

UNIT-III

5. a) Write a C program to perform the operation of addition of two matrices. 7M
- b) Explain about call by value and call by reference with reference to functions. Write a function to swap the values between the variables using call by value and call by reference. 7M

(OR)

6. a) Write C program to read an array of integers and calculate sum and average. 7M
- b) Explain function and explain different types of functions. 7M

UNIT-IV

7. a) Explain Various Dynamic Memory Allocation functions 7M
- b) Explain in detail about array of structure. 7M

(OR)

8. a) What is a pointer? Explain address arithmetic with example. 7M
- b) Explain nested structure and with an example. 7M

UNIT-V

9. a) Explain different random file access functions with example 7M
- b) Write a C program to count number of lines, words and characters in a given text. 7M

(OR)

10. a) Explain the following with example: 7M
- (i) fprintf() (ii) fscanf() (iii) fgets()(iv) feof() (v) rewind()
(vi) fseek() (vii) ftell()
- b) Write a C program to copy data to another file. 7M

AR13

CODE: 13HS1003
ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)
I B.Tech I Semester Supplementary Examinations, January-2019

SET-2

ENVIRONMENTAL STUDIES

(Common to EEE & ECE)

Time: 3 Hours

Max Marks: 70

PART-A

ANSWER ALL QUESTIONS

[1 x 10 = 10 M]

1. a) Green Media
b) Bio magnification
c) Food web
d) Endangered species
e) Eutrophication
f) Composting
g) Rio-Summit
h) Waste land reclamation
i) Total Fertility rate
j) GIS

PART-B

Answer one question from each unit

[5x12=60M]

UNIT-I

2. a) Explain scope & importance of Environmental education? 6M
b) Discuss the need for public awareness about environment and their problem? 6M
- (OR)
3. a) Define deforestation? Explain causes, effects and control measures of it? 6M
b) Explain role of an individual in conservation of natural resources? 6M

UNIT-II

4. a) Discuss ecological pyramids with example? 6M
b) Define ecological succession? Explain the process of ecological succession? 6M

(OR)

5. a) Explain the conservation of bio-diversity with example? 6M
b) How can you justify India as a mega bio-diversity nation? 6M

UNIT-III

6. a) Define pollutant? Explain causes and effects of Air pollution? 6M
b) Bhopal gas tragedy Vs Chernobyl nuclear disaster. 6M

(OR)

7. a) What is the environmental significance of toxic metals in drinking water? 6M
b) Explain the effects of urban solid waste? 6M

UNIT-IV

8. a) Explain resettlement and rehabilitation of people for any development project. 6M
b) Discuss climate change and Green house effect. 6M

(OR)

9. a) Discuss Ozone layer depletion with a case study of Ozone hole over Antarctica. 6M
b) Explain wild life protection act and water act? 6M

UNIT-V

10. a) Explain about population growth and their characteristics? 6M
b) Discuss role of IT in human health? 6M

(OR)

11. a) Write a document on any ecosystem you visited? 6M
b) Explain how industrialization and Urbanisation leads to formation of slums in Urban areas. 6M

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PART-A

ANSWER ALL QUESTIONS

[1 x 10 = 10 M]

1. a) Define flow chart?
- b) What are the characteristics of a computer?
- c) What are the different types of loops?
- d) What is the output of the following C program?
Void main()
{
int a=5, b=6, c ;
c=a^b;
printf("c value=%d",c);
}
- e) What is mean by Library function?
- f) Mention various memory allocation functions in C?
- g) Define Structure?
- h) What is the difference between scanf() and gets() function?
- i) Define union.
- j) What are the various types of files?

PART-B

Answer one question from each unit

[5x12=60M]

UNIT-I

2. a) Explain about Algorithm properties and advantages? 6M
- b) Explain the arithmetic & logical operators with examples? 6M
- (OR)**
3. a) Write an algorithm and flow chart for swapping of two numbers? 6M
- b) What is Problem Solving? Explain about Problem –Solving aspects? 6M

UNIT-II

4. Differentiate between if statement and if-else statement with suitable examples and proper syntax 12M
- (OR)**
5. Explain the following statements with syntax & example programs? 12M
- a) While statement b) for statement

UNIT-III

6. a) Write a C Program to find the sum of two matrix? 6M
- b) What is an array? How to declare and initialize arrays? Explain with examples? 6M
- (OR)**
7. a) Explain about call by value and call by reference. 6M
- b) Explain about the following string handling functions with example programs. 6M
- (i) strlen () (ii) strcpy () (iii) strcat ()

UNIT-IV

8. a) Define Pointer ? and explain the operations of pointers. 8M
- b) Write a C program to print address of a given variable ? 4M
- (OR)**
9. a) Define Structure ? How to declare and initialize the Structures? 6M
- b) Distinguish between structure and union. 6M

UNIT-V

10. a) Explain the basic file operations ? 6M
- b) Write a C program to display the content of the file? 6M
- (OR)**
11. a) Write a C program to write data file and read data from file? 6M
- b) Explain the formatted I/O functions in files concept? 6M