

# AR16

**CODE: 16CS1001**

**SET-2**

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

**I B.Tech I Semester Regular & Supplementary Examinations, December-2017**

**COMPUTER PROGRAMMING**  
**(Common to CE, ME, CSE & IT Branches)**

**Time: 3 Hours**

**Max Marks: 70M**

Answer ONE Question from each Unit

All Questions Carry Equal Marks

All parts of the question must be answered at one place only

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## **UNIT-I**

1. a) Explain in detail about the basic structure of C program. [7M]  
b) Explain about logical and assignment operators with example programs [7M]

**(OR)**

- 2 a) Write about different types of constants used in c language. [7M]  
b) Explain about C keywords and identifiers in detail. [7M]

## **UNIT-II**

3. a) Write about 'for' statement with its general form ,flow chart and with a suitable example [7M]  
b) Write a C program for printing the Fibonacci series using for statement. [7M]

**(OR)**

4. a) Write about nested if ... else statements with its general form ,flow chart and with a suitable example [7M]  
b) Write about switch statement with suitable example. [7M]

### **UNIT-III**

5. a) Write a C program to evaluate Matrix addition using Two- [7M]  
Dimensional arrays.  
b) Write about passing arrays to function with a suitable [7M]  
example program.

**(OR)**

6. a) Write about recursive function with a suitable example [7M]  
program.  
b) Write about static and external storage classes in C. [7M]

### **UNIT-IV**

7. a) Write about 'pointers to pointers' concept with suitable [7M]  
example program.  
b) Define a Structure. Write about nested structures with [7M]  
suitable example.

**(OR)**

8. a) Write about definition, declaration, accessing of union [7M]  
members with suitable example.  
b) Write about 'arrays of structures' with an example [7M]  
program.

### **UNIT-V**

9. a) Write about defining, opening and closing a file. [7M]  
b) Write a c program to count the number of characters in a [7M]  
given text file

**(OR)**

10. a) Write about input and output operations on files with [7M]  
suitable examples.  
b) Write a C program to read a list of integers from one file [7M]  
and copy the same in reverse order in another file.

# AR16

**CODE: 16HS1003**

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

**I B.Tech I Semester Regular & Supplementary Examinations, December-2017**

**ENVIRONMENTAL STUDIES  
(Common to EEE & ECE Branches)**

**Time: 3 Hours**

**Max Marks: 70**

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**UNIT-I**

1. a Enumerate the reasons for land degradation. How it can be solved? 7M
- b Why water is being overly utilized? What measures can be taken to overcome the problem? 7M

**(OR)**

2. a What is the necessity for public awareness? How people get motivated? 7M
- b Review what are the benefits extracting from forests and discuss the negative impacts by deforestation along with mitigation. 7M

**UNIT-II**

3. a Discuss the types and characteristic features of forest ecosystem. 7M
- b Explain nitrogen cycle with a neat diagram 7M

**(OR)**

4. a Describe values of biodiversity. 8M
- b Define food chain and food web with an example each. 6M

**UNIT-III**

5. a What is marine pollution? List out its causes, effects and control measures. 8M
- b Why nuclear hazards occur? What measures can be taken to resolve it? 6M

**(OR)**

6. a Discuss the methods used for solid waste disposal. 8M
- b Write causes, effects and control measures of water pollution. 6M

**UNIT-IV**

7. a Describe wildlife protection act. 7M
- b Summarize the points on air prevention and control of pollution act. 7M

**(OR)**

8. a What is the difference between rainwater harvesting and water shed management. 6M
- b Discuss in detail about global warming. 8M

**UNIT-V**

9. a Document the urban polluted site which you have visited. 7M
- b Why population varies in different nations? What are the key factors used to assess the population of a nation. 7M

**(OR)**

10. a List some insects which you have found by visiting hill area. 6M
- b How environment and human health are interrelated to each other? 8M

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