AR16

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)
I B.Tech I Semester Supplementary Examinations, February-2018

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) What are the different steps followed in program development.   [7M]
   b) Explain about conditional and logical operators with suitable examples.   [7M]

(OR)

2 a) Explain in detail about flow chart with an example.   [7M]
   b) Explain about C data types in detail.   [7M]

UNIT-II

3. a) Write about while statement with its general form, flow chart and with a suitable example.   [7M]
   b) Write a C program to calculate the sum of digits of an integer using while statement.   [7M]

(OR)

4. a) Write about switch statement with suitable example.   [7M]
   b) Explain in detail about break and continue statements in C language with its general form and suitable example.   [7M]

UNIT-III

5. a) Write a C program to find Matrix addition using Two-Dimensional arrays. [7M]
   b) Write about auto and register storage classes in C [7M]

(OR)

6. a) Write about declaration and accessing of Two-Dimensional arrays with suitable example. [7M]
   b) Write about passing arrays to function with a suitable example program. [7M]

UNIT-IV

7. a) Write about 'pointers as function arguments' with suitable example program. [7M]
   b) Write about definition, declaration, accessing of structure members with suitable examples. [7M]

(OR)

8. a) Explain in detail about dynamic memory allocation. [7M]
   b) Write about 'arrays of structures' with an example program. [7M]

UNIT-V

9. a) Write about input and output operations on files with suitable examples. [7M]
   b) Write a c program to copy the contents of one file into another file. [7M]

(OR)

10. a) Write about defining, opening and closing a file. [7M]
    b) Write a C program to read a list of integers from one file and copy the same in reverse order in another file. [7M]

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CODE: 16HS1003   **SET-1**

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)
I B.Tech I Semester Supplementary Examinations, February-2018
ENVIRONMENTAL STUDIES
(Common to EEE & ECE 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

UNIT-I

1. a) Explain the scope of environmental studies?   **7**
   b) What are the ecological & commercial uses of forest resources?   **7**

(OR)

2. a) What are the disciplines of the environmental education?   8
   b) Write the benefits and effects of construction of big dams?   6

UNIT-II

3. a) Why some of the ecological pyramids are upright while others are inverted &   8
      spindle in different ecosystems?
   b) What is role of Zoos and Botanical gardens in biodiversity conservation   6

(OR)

4. a) Explain types of Lakes?   7
   b) Comment upon Indian biodiversity with special reference as Mega diversity nation   7

UNIT-III

5. a) Define air pollution, write down its sources & effects & how air pollution can be   9
      controlled at source?
   b) What are effects of radioactive pollutants on human beings?   5

(OR)

6. a) Explain clearly about the stages of biomedical waste management?   10
   b) Describe any Two : (i) Composting (ii) Pyrolysis (iii) Land fill method   4

UNIT-IV

7. a) What do you know about 'water conservation', mention some of the techniques of   8
      water conservation?
   b) Define climate change? What are the effects and control measures for global   6
      warming?

(OR)

8. a) What do you know about 'Sustainable Development'? What are the important   8
      components of sustainable?
   b) Write short notes on 'Wild life(Protection)' Act,1972.   6

UNIT-V

9. a) Explain the relation between human health & environment. Cite some examples   **7**
      to illustrate your answer?
   b) How would you conduct a survey of solid waste pollution in a town?   **7**

(OR)

10. a) What is the role of information technology in human health   **7**
    b) Write note on the need of and Green belt / Zone to be maintained by any   7
       Industry? & Give an account of behaviour of some common birds.

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Time: 3 Hours   Max Marks: 70

PART-A

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

1. a) Define Compiler.
   b) Give the difference between **++a** and **a++**.
   c) List out the properties of an algorithm.
   d) What is keyword?
   e) What are the various decision making statements available in C?
   f) What is mean by Global variables?
   g) Define function.
   h) What is the difference between **gets()** and **getchar()** function?
   i) Define recursion.
   j) What is mean by file?

PART-B

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

UNIT-I

2. a) Define Computer and Explain the Block diagram of a computer?   8M
   b) Explain Various types of Computer Languages?   4M

(OR)

3. a) Explain in detail about the Structure of a C language program with an example?.   8M
   b) What is an operator and List the different types of C operators with symbols?   4M

UNIT-II

4. a) Explain the Various Looping Statements in C with syntax and examples.   6M
   b) Write a C program to find the given number is Armstrong number or not.   6M

(OR)

5. a) Write a C Program to perform the arithmetic expressions using switch statement. 6M
   b) Write a C program to find the Summation of given Digits. (**Example: Given number is 148. Then the result→1+4+8=13)** 6M

UNIT-III

6. a) Explain the Parameter Passing Mechanisms in C-Language with example. 6M
   b) Write a C Program to print the Transpose of a given matrix. 6M

(OR)

7. a) Explain briefly about the types of storage classes   in   'C'. 8M
   b) How to declare and initialize 2D arrays? Explain with examples. 4M

UNIT-IV

8. a) What is a pointer? Write syntax and explain with example program. 6M
   b) Write a C Program to Print the elements of array using pointers? 6M

(OR)

9. a) Explain the difference between Structures and Unions. 6M
   b) Write a C Program to display student information by using structure. 6M

UNIT-V

10. a) What are the file I/O functions in C. Give a brief note about each function? 6M

    b) Describe the types of files with modes & examples. 6M

(OR)

11. a) Describe the different operations on files. 6M
    b) Write a C Program to copy the data one file in to another file. 6M

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ENVIRONMENTAL STUDIES
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Time: 3 hours   Max Marks: 70

PART – A

Answer all questions   **[10X1=10M]**

1. a) Biosphere
   b) Eutrophication
   c) Food web
   d) Hot spots
   e) Soil pollution
   f) Any two reasons for earthquake
   g) Sustainable development
   h) Water shed
   i) Documentation
   j) Tuberculosis

PART-B

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

UNIT-I

2. a) Write briefly about the scope of Environmental studies.
   b) Write a note on environmental impacts of construction of Big dams   [6M + 6M]

(OR)

3. a) Name few alternative energy resources..Explain their need in present situation.
   b)What is over grazing? How does it contribute to environmental degradation.   [6M + 6M]

UNIT-II

4. a) Explain about different types of Ecological pyramids.   [6M + 6M]
   b) Suggest different strategies to be followed for the conservation of Biodiversity.

(OR)

5.a) Write a note on Aquatic ecosystem.   [6M + 6M]
   b) What are the major threats to Biodiversity.

UNIT-III

6. a) Discuss in detail the primary waste water treatment methods schematic presentation [6M + 6M]
   b) Classify solid waste. What are the sources of urban and industrial solid waste.

(OR)

7. a) Discuss the impacts of fire crackers on man and environment.   [6M + 6M]
   b) i. Floods. ii. Land slides iii. Cyclones

UNIT-IV

8. a)What are the objectives of Rain water harvesting ?Explain low cost technology of it. [6M + 6M]
   b) What are the urban problems related to energy ?

(OR)

9. a) Explain in detail about Global warming.   [6M + 6M]
   b) Write salient features of Forest conservation Act.

UNIT-V

10. a) Define documentation and explain various methods of documentation?   [6M + 6M]
    b) Role of IT to improve environmental quality?

(OR)

11. a) Explain why variations of populations among different nations?   [6M + 6M]
    b) Submit a report on occupational health problems in an industry?

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