AR16

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) Explain the scope and importance and importance of environmental studies. 7M
   b) As a student, how do you make the public realize that solving environmental issues is the responsibility of every citizen? 7M

(OR)

2. a) Define deforestation and afforestation. Specify the causes and adverse effects of deforestation and advantages with afforestation. 8M
   b) Explain the impacts of modern agriculture on the world food problem. 6M

UNIT-II

3. a) Define food chain and food web with concern examples. 6M
   b) What is meant by ecological pyramid? Describe the pyramid of biomass for terrestrial and aquatic ecosystem. 8M

(OR)

4. a) Define Biodiversity. How is it related to the availability of genes, species, and ecosystem of a region? 7M
   b) Explain the values of Biodiversity. 7M

UNIT-III

5. a) Enumerate different air pollutants and explain its effects on human beings. 7M
   b) Define noise pollution and discuss the sources and effects of noise pollution. 7M

(OR)

6. a) List out the control methods of solid waste disposal and explain the land filling method with advantages and disadvantages. 8M
   b) Define disaster management. Discuss the mitigation measures for cyclones. 6M

UNIT-IV

7. a) What is rain water harvesting? What are the purposes served by it? 7M
   b) Describe Ozone layer depletion and its effects on living organisms. 7M

(OR)

8. a) What is watershed management? How can watershed management solve the problem of depletion of the ground water table? 8M
   b) Describe the major activities of wildlife protection act. 6M

UNIT-V

9. a) Give the reasons for overpopulation and how to control the population growth. 7M
   b) Describe the various roles of information technology in the protection of environment. 7M

(OR)

10. a) Enlist global environmental problems and discuss any one. 8M
    b) Suppose you have visited a river during your field visit. What will be your observations in terms of structure and functions of river ecosystem? Discuss. 6M

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AR16

CODE: 16CS1001   **SET-1**

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)
I B.Tech II Semester Supplementary Examinations, April-2019

COMPUTER PROGRAMMING
(Common to EEE & ECE Branches)

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)	Explain in detail about the differences between Machine, Assembly and High level languages.	7M
	b)	Define Flowchart? Draw the flowchart for addition of two numbers.	7M

(OR)

2.	a)	Explain about structure of c program in-detail.	7M
	b)	Write a c program for swapping of two numbers.	7M

UNIT-II

3.	a)	Write and explain the syntax for if-else statement and its usage.	7M
	b)	Write a c program for smallest among 3 numbers.	7M

(OR)

4.	a)	Write and explain the about for-loop with example.	7M
	b)	Describe about break statement importance with example.	7M

UNIT-III

5.	a)	Write a c program for addition of two matrices.	7M
	b)	Define function syntax? Write the function for factorial of a number.	7M

(OR)

6.	a)	Define, read and display of 1Dimensional array of integers.	7M
	b)	Describe about auto, register storage classes.	7M

UNIT-IV

7.	a)	Explain about pointer arithmetic with examples.	7M
	b)	How to access structure members through pointers? Explain.	7M

(OR)

8.	a)	Define, initialize structure and access structure members through structure variables? Explain.	7M
	b)	Explain the concept of dynamic memory allocation with malloc(),calloc().	7M

UNIT-V

9.	a)	How to open,read,write and close a file? Explain	7M
	b)	Write a c program to copy contents of one file to another.	7M

(OR)

10.	a)	Explain about various modes of files with example code snippets.	7M
	b)	Write about Random Access file functions.	7M

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AR13

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)
I B.Tech II Semester Supplementary Examinations, April-2019

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

Time: 3 Hours   Max Marks: 70

<u>PART-A</u>

ANSWER ALL QUESTIONS   [1 x 10 = 10 M]

1. a) Hydrosphere
   b) Organic farming
   c) Photoautotroph
   d) Estuary
   e) Species diversity
   f) Poaching
   g) Landslides
   h) Eutrophication
   i) Doubling time in population
   j) Green media

PART-B

Answer one question from each unit   **[5x12=60M]**

UNIT-I

2. (a) Explain briefly about importance of environmental   7M
   studies
   (b) Explain about public awareness for environment   5M
(OR)
3. (a) What are alternate sources of energy? Describe any   7M
   two of them
   (b) Discuss the effects of mining on environment   5M

UNIT-II

4. (a) Define ecology and ecosystems   6M
   (b) What are the biotic and abiotic components of an   6M
   ecosystem?
(OR)

5. (a) What are the different types of Biodiversity? 6M
   (b) What are food chains and food webs? Give examples 6M
   and discuss their significance

UNIT-III

6. (a) What are the main sources of water pollution? 7M
   Discuss its effects and control measures
   (b) What are the main sources of noise pollution? Discuss 5M
   its effects and control measures
   (OR)
7. (a) Discuss about the role of an individual in prevention 7M
   of pollution
   (b) What are the main sources of marine pollution? 5M
   Discuss its effects and control measures

UNIT-IV

8. (a) Discuss the salient features of a) Wildlife protection 8M
   Act 1972 b) Forest conservation Act 1980.
   (b) Discuss major environmental protection rules 1986? 4M
   (OR)
9. (a) How do you define pollution as per water (prevention 8M
   and control of pollution) Act 1974? What are the
   salient features of the Act?
   (b) Explain briefly about urban problems related to 4M
   energy

UNIT-V

10. Explain the aspects to be studied and the procedure 12M
    for collecting information when you want to
    document the environmental features and resource
    assets of a water resource ecosystem during a field
    visit.
    (OR)
11. Explain the step by step procedure to record and 12M
    document the environmental features and resource
    assets of an ecosystem during a field visit

AR13

PART-A

Answer all questions   [10 x 1=10M]

1. a) Define a flow chart? What are the components of a flow chart?
   b) Write about conditional operators in C
   c) Write a simple program to demonstrate if else statement
   d) What is the necessity of break statement in a switch statement/program?
   e) What are multidimensional arrays? Why are they used?
   f) What is the difference between call by value and call by reference?
   g) What is a structure? Why it is used?
   h) Why is character pointers used in C?
   i) What is an I/O file? Explain
   j) What is a C PRE-PROCESSOR?

PART-B

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

UNIT-I

2. a) Write an algorithm, draw a flow chart for identifying greater of two numbers lesser of two
      numbers   [6M]
   b) What is RAPTOR tool? Why is it used?   [6M]
                                (OR)
3. a) Write an algorithm, draw a flow chart for identifying given number is prime number
      or not?   [6M]
   b) Write short notes on
      i) Machine level language ii) High level language.   [6M]

UNIT-II

4. a) Demonstrate using a simple C program While and do while statements.   [6M]
   b) What is the use of nested switch statement? Explain with an example.   [6M]
                                (OR)
5. a) Write a simple c program to represent Pascal's triangle using for loop.   [6M]
   b) Where are continue statement and goto statements used? Explain   [6M]

UNIT-III

6. What is the storage class? Why is it used? Explain in detail about various storage
   classes used in C with examples   [12M]
                                (**OR)**

AR13

7. a) What is an array? Why is it used in C? Write a simple C program to demonstrate a
   2- Dimensional array   [6M]
   b) What are standard header files and library functions used in C? Explain.   [6M]

UNIT-IV

8. a) What is a pointer? Why are pointers used in C? Write a simple C program to illustrate
   the use of pointers.   [6M]
   b) Explain about pointer to pointer in C with an example program?   [6M]
   (OR)
9. a) Explain how structure variable is passed as a parameter to a function with example   [6M]
   b) Write a C program to swap two numbers using call by pointers method.   [6M]

UNIT-V

10. a) What is a file? Explain operations on file [fopen() and fclose()] in C with example program [6M]
    b) Explain about fseek() and ftell() functions with syntax   [6M]

(OR)
11. a) Write a C program to read and display a text from the file.   [6M]
    b) What are binary files? How are they used in C.?   [6M]