AR16

CODE: 16HS1003 **SET-2**

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI

(AUTONOMOUS)

I B.Tech II Semester Supplementary Examinations, October / November-2020

ENVIRONMENTAL STUDIES

(Common to CE, ME, CSE & IT 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)	Define environmental studies ?Explain scope and importance of environmental studies?	7m
	(b)	Explain growing energy needs and how can overcome these with alternate energy resources	7m
		(OR)	
2.	(a)	What are the causes and consequences of deforestation?	6m
	(b)	Write the benefits and problems associated with dams?	8m

UNIT-II

3.	(a)	Give the characteristic features of forest ecosystem?	7m
	(b)	Explain conservation techniques taken for bio-diversity?	7m
		(OR)	
4.	(a)	Discuss about lake ecosystem?	8m
	(b)	Discuss why India is a Mega–diversity nation?	6m

UNIT-III

5.	(a)	What is solid waste management? Explain.	8m
	(b)	What is the role of an Individual in prevention of pollution?	6m
		(OR)	
6.	(a)	What are the mitigation measures to be taken at the time of cyclones?	6m
	(b)	What are the various causes and effects of marine pollution?	8m

UNIT-IV

7.	(a)	Write the salient features of the Air(prevention and control of pollution)act,1981?	7m
	(b)	What are the major issues involved in Enforcement of Environmental legislation?	7m
		(OR)	
8.	(a)	Write the salient features of the water (prevention and control of pollution) act,1974?	7m
	(b)	What is meant by ozone layer? how CFC's affect ozone layer?	7m

UNIT-V

9.	(a)	Explain the role of family welfare programs in the control of population explosion?	7m
	(b)	Write explanatory notes on the need of green belt to be maintained by any industry you have visited?	7m
		(OR)	
10.	(a)	Write about population growth, explosion and effects?	7m
	(b)	Write a report on a visit to an environmental polluted area?	7m

***

AR16

CODE: 16CS1001 **SET-1**

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI

(AUTONOMOUS)

I B.Tech II Semester Supplementary Examinations, October / November-2020

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)	Write the basic data types in C ?	7M
	b)	Discuss Tokens in C?	7M
		(OR)	
2.	a)	Write the basic structure of Program? Write a program to reverse a given number?	7M
	b)	List the operators in c and explain any three Operators with suitable example	7M

UNIT-II

3.	a)	Differentiate While and DO-While with appropriate examples?	7M
	b)	Elaborate GoTO and Continue statements?	7M
		(OR)	
4.	a)	Give syntax for SWITCH statement. Draw a Flow Chart for Switch statement?	7M
	b)	Write an algorithm to find prime numbers in the given range {1-20}?	7M

UNIT-III

5.	a)	List the storage classes in C?	7M
	b)	Write a program to find GCD with recursive functions?	7M
		(OR)	
6.	a)	What is an array? Write limitations of arrays? Give syntax for 2-D array?	7M
	b)	What is recursion? Write program for finding the factorial of given number using recursion?	7M

UNIT-IV

7.	a)	What is Pointer? Write in initialization of pointers with appropriate examples?	7M
	b)	Write about Dynamic Memory Allocation?	7M
		(OR)	
8.	a)	List the operations on pointers?	7M
	b)	Give use of Structures in C and Write the syntax for storing address [name,street,city,state,pin?	7M

UNIT-V

9.	a)	Write about file handling in C?	7M
	b)	List the random access functions in C?	7M
		(OR)	
10.	a)	Write a program to merge 2 files?	7M
	b)	Write various modes that can be operated on files?	7M

***

AR13

CODE: 13HS1003 **SET-1**

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)

I B.Tech II Semester Supplementary Examinations, October / November-2020
ENVIRONMENTAL STUDIES
(Common to CE, ME, CSE & IT)

Time: 3 Hours **Max Marks: 70**

PART-A

ANSWER ALL QUESTIONS **[1 x 10 = 10 M]**

1. a) Green Advocacy
   b) Deforestation
   c) Decomposers
   d) Hot spots of Bio-dirensty
   e) Secondary air pollutant
   f) Sanitary Land fill
   g) Resettlement
   h) EIA Definition
   i) Population explosion
   j) ENVIS

PART-B

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

UNIT-I

2. a) How can you justify Environment Studies is a multidisciplinary nature of subject? 6
   b) Discuss composition of Lithosphere and its role? 6

(OR)

3. a) Explain the impacts of Dams by taking any case study. 6
   b) Discuss impacts of Modern agriculture 6

UNIT-II

4. a) Explain structure of pond ecosystem with neat sketch of diagram. 6
   b) Explain the functional aspects of a Grass land ecosystem. 6

(OR)

5. a) Define Bio-diversity ? Explain services of Bio-diversity? 6
   b) Discuss the threats to the Bio-diversity? 6

UNIT-III

6. a) Minamata disease Vs Water borne diseases? 6
   b) Define Noise pollution? Explain sources, effects & control measures of it? 6

(OR)

7. a) Explain the impacts of pollutants on Oceans? 6
   b) Explain the incineration & composting methods in solid waste management? 6

UNIT-IV

8. a) Explain water conservation techniques & Rain water harvesting methods. 6
   b) Explain Stockholm conference Vs Rio-summit. 6

(OR)

9. a) Explain EIA methodologies for any development project? 6
   b) Discuss issues involved in enforcement of environmental legislation? 6

UNIT-V

10. a) Discuss population variation among nations? 6
    b) Explain role of IT in environment? 6

(OR)

11. a) Explain pollution levels you visited an industry recently? 6
    b) Explain how to improve eco-tourism projects? 6

AR13

CODE: 13CS1001 **SET-1**

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)

I B.Tech II Semester Supplementary Examinations, October / November-2020

COMPUTER PROGRAMMING
(Common to ECE & EEE)

Time: 3 Hours **Max Marks: 70**

PART-A

ANSWER ALL QUESTIONS **[1 x 10 = 10 M]**

1. a) C is a structured programming language. Explain
   b) Differentiate between variable and constant?
   c) Can I use `int` data type to store the value 32768? Give YES or NO and justify the answer with a one line description.
   d) Give any two differences between structure and union.
   e) Differentiate between pointer variable and normal variable.
   f) Evaluate the output for the following:

```
int main(){
int a,b,c;
printf("%d",scanf("%d%d%d",&a,&b,&c));
printf("%d",printf("AITAM"));
}
```

   g) Arrange the operators according to their precedence `+, %, ->, =` from highest to lowest priority.
   h) What is the syntax of CALLOC to allocate memory to an array at runtime.?
   i) What are the various mechanisms to pass parameters to a function?
   j) The following code will open file in _____ mode

```
FILE *fp;
fp = fopen("demo.txt", "rb");
```

PART-B

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

UNIT-I

2. a) Define algorithm and write an algorithm to calculate the area of a triangle. 6
   b) List the different types of computer languages. Describe them briefly. 6

(OR)

3. a) Define a variable? List the rules for naming the variables with examples. 6
   b) Discuss about logical operators in C and write a C program to check whether a given year is leap year or not. 6

UNIT-II

4. a) Explain Nested if with syntax and write a C program to find the largest of three numbers using nested if. 6
   b) Describe break and continue constructs in C. Show with suitable examples how they are can be used and why/when they should be used. 6

(OR)

5. a) Explain the syntax of a switch statement with an example. 6
   b) Describe while loop and write a C program to find the factorial of a given number using while loop. 6

UNIT-III

6.	a)	Explain integer 1D array with suitable example.	6
	b)	Write a C program to reverse the given string.	6

(OR)

7.	a)	Write a C program to find an element in a given set of 1d integer array using linear search.	6
	b)	Write a recursive function for finding the factorial value of a given number.	6

UNIT-IV

8.	a)	What is dynamic memory allocation? Write and explain the different dynamic memory allocation functions in C.	6
	b)	How to define and initialize structures? How to access structure elements?	6

(OR)

9.	a)	Define Pointer with suitable example.	4
	b)	Explain the operations can be performed on pointers.	8

UNIT-V

10.	a)	What is file? Explain about the Input and output functions of files.	6
	b)	Write a program to copy contents of one file to another file.	6

(OR)

11.	a)	Write a C Program to print the last n characters in a given file.	6
	b)	What are different types of operating modes of files? Explain with an example	6