

AR16

CODE: 16HS1003

SET-1

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

I B.Tech II Semester Supplementary Examinations, August-2018

**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) Write notes on Environmental effecting of extracting and using mineral resources? 8m
(b) What are the major causes for displacement of native tribal people? 6m
(OR)
2. (a) What is the role of an individual in conservation of natural resources? 7m
(b) Discuss about man induced landslides and its effects with case study? 7m

UNIT-II

3. (a) Define ecosystem. Explain the structure and function of an ecosystem? 7m
(b) What kinds of threats to the biodiversity may lead to its loss? 7m
(OR)
4. (a) Write about ecological succession? 7m
(b) What are the values of biodiversity? Explain them. 7m

UNIT-III

5. (a) Write the sources and effects of water pollution on human health? 7m
(b) Define noise. Write in detail noise pollution control measures? 7m
(OR)
6. (a) Discuss the sources, effects and management of biomedical and hazardous wastes? 7m
(b) Define air pollution. What are its impacts on human health? 7m

UNIT-IV

7. (a) Explain the main provisions of forest conservation Act,1980? 8m
(b) Discuss the causes and effects of global warming? 6m
(OR)
8. (a) Discuss the salient features of wild life(protection)Act,1972? 7m
(b) Explain Environment Impact Assessment and its significance in various stages? 7m

UNIT-V

9. (a) What are the causes for high population growth in India.? 6m
(b) Based on your field visit ,summarize your observations and findings of river ecosystem? 8m
(OR)
10. (a) How IT useful in environment and on human health? 6m
(b) Write a field report on the visit to a polluted metropolitan city? 8m

AR16

CODE: 16CS1001

SET-2

**ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
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I B.Tech II Semester Supplementary Examinations, August-2018

**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) What are identifiers? Rules for naming identifiers and Write different types of constants. 7M
- b) Explain in detail about logical and bit-wise operators. 7M

(OR)

2. a) Give and explain the examples for conditional and increment, decrement operators. 7M
- b) Write a c program for conversion of temperature from Celsius to Fahrenheit. 7M

UNIT-II

3. a) Describe the importance of continue statement with example. 7M
- b) Write and explain the syntax of do-while with code-snippet. 7M

(OR)

4. a) Write and explain the syntax of nested-if with example. 7M
- b) Describe the usage of goto statement with example. 7M

UNIT-III

5. a) What is Recursion? Find the factorial of a number with recursion. 7M
- b) Explain about any 3 built-in library functions with example. 7M

(OR)

6. a) Explain about call by reference with example. 7M
- b) Describe about the static, extern storage classes. 7M

UNIT-IV

7. a) Write and Explain syntax of nested structures with suitable example. 7M
- b) Write a c program to find the sum of five numbers with arrays and pointers. 7M

(OR)

8. a) How to pass structures as a parameter to functions? Explain 7M
- b) Describe about pointers to pointers with example. 7M

UNIT-V

9. a) Explain about various file modes with example. 7M
- b) Write a c program to reverse the contents of file and display. 7M

(OR)

10. a) Explain about file I/O functions. 7M
- b) Write a c program to merge the contents of two files. 7M

AR13

Code: 13HS1003

SET-1

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I B.Tech II Semester Supplementary Examinations, August-2018

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

Time: 3 hours

Max Marks: 70

PART – A

Answer all questions

[10X1=10M]

1. a) Environment
- b) Biological magnification
- c) Aquifer
- d) Food chain
- e) Endangered species
- f) In-situ conservation
- g) Thermal pollution
- h) Itai – Itai disease
- i) Case study
- j) Information technology

PART-B

Answer one question from each unit

[5X12=60M]

UNIT-I

2. a) Why is it necessary to create environmental awareness ?
- b) What are the major causes and consequences of deforestation? [6M + 6M]

(OR)

3. a) Critically discuss the composition of the atmosphere and its role? [6M + 6M]
- b) What do you mean by i) Salinity ii) Water logging?

UNIT-II

4. a) What are the biotic and abiotic components of an ecosystem? [6M + 6M]
- b) What do you mean by consumptive use value, productive use value, social value of biodiversity?

(OR)

5. a) Discuss the models of energy flow in an ecosystem? [6M + 6M]
- b) What are the hot spots of biodiversity what are the hot spots found in India? Discuss their salient features.?

UNIT-III

6. a) Define air pollution. Enumerate various methods for control of air pollution at source.? [6M + 6M]
- b) What adverse effects can solid waste cause? How can the solid waste be managed?

(OR)

7. a) Discuss various source of marine pollution. How can you prevent pollution of our oceans?
- b) How can you, as an individual, prevent environmental pollution? [6M + 6M]

UNIT-IV

8. a) What do you mean by sustainable development? What are the major measures to attain sustainable? [6M + 6M]

b) What are the salient features of wild life (protection) Act 1972 ?

(OR)

9. a) What is a watershed ? Discuss the practices of watershed management? [6M + 6M]

b) What is meant by acid rain? How does it form? What are the effects of acid rain?

UNIT-V

10. a) Discuss the influence of environmental parameters and pollution on human health.? [6M + 6M]

b) What is the role of NMIS, ENVIS & GIS in dissemination of environmental information and environmental management??

(OR)

11. a) Submit a report on document environmental assets forest? [4M + 4M + 4M]

b) Explain why variation of populations among different nations?

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COMPUTER PROGRAMMING

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Time: 3 Hours

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PART-A

ANSWER ALL QUESTIONS

[1 x 10 = 10 M]

1. a) What are the basic characteristics of an algorithm?
- b) Differentiate between post increment and pre increment operator.
- c) What is the use of goto statement?
- d) Is the default case necessary in switch statement?
- e) What does contiguous memory allocation mean?
- f) Write the syntax of for loop.
- g) Differentiate between actual and formal parameters.
- h) Can we use string in switch statement?
- i) Explain pointer with an example.
- j) Write different file opening modes.

PART-B

Answer one question from each unit

[5x12=60M]

UNIT-I

2. a) Write an algorithm to display the roots of a quadratic equation. 6M
 - b) Draw a flow chart to display the digits of a given number. 6M
- (OR)
3. a) Write about different problem development steps. 6M
 - b) Explain about bit wise operator, relational operator and special operator with examples. 6M

UNIT-II

4. a) Write the syntax of else if ladder. Explain it with an example. 6M
- b) Write a program to check the input character is vowel or consonant using switch and if else. 6M

(OR)

5. a) Write the syntax of while loop. Explain it with an example. 6M
b) Write a program to implement all arithmetic operation using else if ladder. 6M

UNIT-III

6. a) Define an array. Write a program to display sum and average of 10 numbers stored in an array. 6M
b) Differentiate between call by value and call by reference method with an example. 6M

(OR)

7. a) How will you declare and initialize a two dimensional array? Write a program to display all the elements of a two dimensional array. 6M
b) Specify the advantages of function in C language? Discuss different types of functions. 6M

UNIT-IV

8. a) Explain with example the use of a pointer to an array. 6M
b) Write a program to create a student structure and print student name, roll no and average marks in six different subjects. 6M

(OR)

9. a) Write a program to perform arithmetic operations on two given numbers using pointers. 6M
b) Define Structure. Can you use array inside a Structure? Explain with an example. 6M

UNIT-V

10. a) Write a program to store characters in a file. 6M
b) Explain fseek () function with an example. 6M

(OR)

11. a) Why feof () function is used in file handling? Discuss with an example. 6M
b) Write a program to display the even numbers present in a file. 6M