

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

MCA II Year I Semester Supplementary Examinations August-2024
ADVANCED PROGRAMMING (PYTHON & R LANGUAGES)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 List and explain various data types in python. With example. CO1 L2 12M
- OR**
- 2 a Demonstrate for and while statements in python with example. CO1 L2 6M
b Build a python program to check given number is positive or negative or zero. CO1 L3 6M

UNIT-II

- 3 a How can we create and access the tuple in python. CO2 L2 6M
b Identify various methods performed on tuple. CO2 L3 6M
- OR**
- 4 a Illustrate the fruitful functions in python with example. CO2 L3 6M
b Discuss about Anonymous functions in python with an example. CO2 L2 6M

UNIT-III

- 5 a Discuss in detail about polymorphism in python. CO3 L2 6M
b Explain method overriding in python with an example program. CO3 L4 6M
- OR**
- 6 a Discuss how we can raise an exception. CO3 L2 6M
b Write a simple program which illustrates Handling Exceptions. CO3 L4 6M

UNIT-IV

- 7 Demonstrate the Help Command in R Language. With examples CO4 L2 12M
- OR**
- 8 a Differentiate between Vector, List, Matrix, and Data frame. CO4 L4 6M
b What is a vector in R? Explain different ways to create a vector. CO4 L2 6M

UNIT-V

- 9 a Discuss the following Statistical Commands with example CO5 L2 4M
i) Mean ii) Median
b Choose the following data1 CO5 L5 8M

> data1

2 8 6 4 2 0 6 8 2 2 6 4 2 8 4

Find the following by using summary statistics commands

- i) Average of the sample
ii) Largest value in the sample
iii) Smallest value in the sample
iv) How many items are in the sample

OR

- 10 a Discuss Line charts using numeric data. CO5 L2 6M
b Draw a pie chart for the following data CO5 L1 6M

Section	I	II	III	IV	V
No.of workers	220	370	190	70	250

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**

**MCA II Year I Semester Supplementary Examinations August/September-2024
WEB TECHNOLOGIES**

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

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|---|---|---|-----|----|----|
| 1 | a | Explain about HTML controls with example. | CO1 | L2 | 6M |
| | b | What is Hyperlink? How they are created? | CO1 | L1 | 6M |

OR

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|---|---|--|-----|----|----|
| 2 | a | Define FRAME. Implement webpage using FRAME. | CO1 | L1 | 6M |
| | b | Explain various media tags in HTML5 with examples. | CO1 | L2 | 6M |

UNIT-II

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|---|---|--|-----|----|----|
| 3 | a | Discuss JavaScript Data types with an example program. | CO2 | L1 | 6M |
| | b | Explain various comparison operators in JavaScript. | CO2 | L3 | 6M |

OR

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|---|--|---|-----|----|------|
| 4 | | Design a web page to demonstrate array objects in JavaScript. | CO2 | L4 | 12 M |
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UNIT-III

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|---|---|---|-----|----|----|
| 5 | a | Explain different types of cookies along with their classes & method. | CO3 | L1 | 6M |
| | b | Analyze with steps to handle http request and response. | CO3 | L4 | 6M |

OR

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| 6 | | Create simple JSP page and explain the steps involved within in it. | CO3 | L3 | 12 M |
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UNIT-IV

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| 7 | | Discuss about operators of PHP in detail. | CO4 | L3 | 12 M |
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OR

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| 8 | | Identify the steps to handle errors and exceptions in PHP. | CO4 | L3 | 12 M |
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UNIT-V

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| 9 | | Analyze how you will access data from the tables stored in database. | CO5 | L4 | 12 M |
|---|--|--|-----|----|------|

OR

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|----|-----|--|-----|----|------|
| 10 | | Identify the process of sending data to the server using | CO5 | L3 | 12 M |
| | i) | GET | | | |
| | ii) | POST | | | |

***** END *****