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

B.Tech III Year I Semester Regular Examinations Feb-2021

PYTHON PROGRAMMING

(Common to CSE & CSIT)

Time: 3 hours

Max. Marks: 60

PART-A

(Answer all the Questions 5 x 2 = 10 Marks)

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|---|---|--|----|
| 1 | a | What does the len() function do in Python? | 2M |
| | b | List the arithmetic operators that python supports. | 2M |
| | c | Define recursive function. | 2M |
| | d | Name the optional statements possible inside a try-except block in Python. | 2M |
| | e | How to read two characters from a file in Python? | 2M |

PART-B

(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

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|---|---|---|----|
| 2 | a | Write history of Python. | 5M |
| | b | List features and applications of Python. | 5M |

OR

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|---|---|---|----|
| 3 | a | What is dictionary? Explain the methods available in dictionary. | 5M |
| | b | Implement the python program to calculate total and average marks based on input. | 5M |

UNIT-II

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|---|---|---|----|
| 4 | a | What is an expression in Python? Explain order of evaluation with example. | 5M |
| | b | Create a python program to generate the multiplication table based on user input. | 5M |

OR

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|---|---|---|----|
| 5 | a | Discuss the Membership and Identity operators with example. | 5M |
| | b | Create a Python program to print prime number series up to N. | 5M |

UNIT-III

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|---|---|--|----|
| 6 | a | Compare method overloading and overriding. | 5M |
| | b | Describe about class constructor (<code>__init__()</code>) with example. | 5M |

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| 7 | a | Discuss about key word arguments with example. | 6M |
| | b | Distinguish global and local variables with example. | 4M |

UNIT-IV

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| 8 | a | List some few common Exception types and explain when they occur. | 6M |
| | b | Write a small code using try-except-else-finally statement in python. | 4M |

OR

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| 9 | a | Illustrate searching with example program. | 5M |
| | b | Illustrate matching with example program. | 5M |

UNIT-V

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| 10 | a | What is Data Management and Object Persistence? | 5M |
| | b | Draw Circle in Python using Turtle. | 5M |

OR

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| 11 | a | Explain about the reading files in python. | 5M |
| | b | Explain about Data Compression. | 5M |

END