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

B.Tech I Year II Semester Regular Examinations May 2019
PROGRAMMING FOR PROBLEM SOLVING
(Common to ECE,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 | Define a Flowchart? Give any example of Flowchart? | 2M |
| | b | Differentiate Break and Continue? | 2M |
| | c | Define Recursion? | 2M |
| | d | How do you read a string through keyboard? | 2M |
| | e | How to represent self-referential structures? | 2M |

PART-B

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

UNIT-I

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| 2 | a | What is constant? Explain different ways to make constants in C. | 5M |
| | b | Write the structure of C program and explain. | 5M |

OR

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| 3 | a | Explain Bit-wise operators with an example. | 5M |
| | b | Explain about type conversion in C. | 5M |

UNIT-II

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| 4 | a | Write a program to find sum of the individual digits of a given number. | 5M |
| | b | Define loop? Why are there three looping statements? Explain. | 5M |

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| 5 | List and explain unconditional statements in C with examples. | 10M |
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UNIT-III

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| 6 | a | What are the advantages of functions? | 5M |
| | b | Write a C program to find the largest element given in an array of elements. | 5M |

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| 7 | Distinguish between the following: | |
| | a. Actual and formal arguments | b. Global and local arguments |
| | c. Automatic and static variables | 10M |

UNIT-IV

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| 8 | a | Explain pointers with functions with an example. | 6M |
| | b | Explain various String handling functions. | 4M |

OR

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| 9 | Write a C program to count the number of vowels, consonants, digits, spaces and special characters in a given string | 10M |
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UNIT-V

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| 10 | a | List out various comparisons between Structure and Union. | 5M |
| | b | Explain about Macros in C. | 5M |

OR

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| 11 | a | Explain about Preprocessor directives. | 5M |
| | b | Write a C program to copy the contents from one file to another file. | 5M |

END