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

B.Tech I Year II Semester Supplementary Examinations Dec 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 | Differentiate between break and continue. | 2M |
| | b | Differentiate exit and return statements. | 2M |
| | c | Define Recursion. | 2M |
| | d | How can you compare two strings? | 2M |
| | e | What are the Different file operations? | 2M |

PART-B

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

UNIT-I

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|---|---|---|-----|
| 2 | | Draw the flowchart to find the greatest of three numbers. | 10M |
| | | OR | |
| 3 | a | Draw flowchart for else if ladder and nested if-else. | 5M |
| | b | Explain about type conversion in C. | 5M |

UNIT-II

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|---|---|--|-----|
| 4 | | Write a program to find the sum of even and odd numbers from 1 to 100. | 10M |
| | | OR | |
| 5 | a | Write a program to find the sum of even and odd numbers from 1 to n. | 5M |
| | b | Explain Break, Continue, and Goto statements with an example. | 5M |

UNIT-III

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|---|---|--|----|
| 6 | a | Write a C program to sort the given array elements in Ascending order. | 5M |
| | b | Write a program to print the array elements in reverse order. | 5M |
| | | OR | |
| 7 | a | Write a C program using function to exchange two numbers using pointers. | 6M |
| | b | What is recursion? What are the advantages and Disadvantages of recursion? | 4M |

UNIT-IV

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|---|---|--|-----|
| 8 | a | Explain the concept of array of pointers with examples | 5M |
| | b | Write a program to swap two numbers using functions. | 5M |
| | | OR | |
| 9 | | Write a C program to count the number of vowels, consonants, digits, spaces and special characters in a given string | 10M |

UNIT-V

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|----|---|---|-----|
| 10 | a | Write a C program to read and display student details using structure. | 5M |
| | b | Explain File status i/o functions. | 5M |
| | | OR | |
| 11 | | Explain file handling functions: a. fseek() b. ftell() c. rewind() d. feof(). | 10M |

END