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

B.Tech I Year I Semester Regular Examinations December 2018

PROGRAMMING FOR PROBLEM SOLVING

(Common to CE,EEE,AG & MECH)

Time: 3 hours

Max. Marks: 60

PART-A

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

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|----------|---|----|
| 1 | a Write a C program to copy the contents from one file to another file | 2M |
| | b Write a program to check whether the person is eligible to vote. | 2M |
| | c How to declare and initialize 1-D, 2-D array with an example. | 2M |
| | d Define pointer to pointer? | 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 | Define data types with suitable examples. | 10M |
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OR

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| 3 | a Write the structure of C program and explain. | 5M |
| | b What is variable? Give the rules for variable declaration. | 5M |

UNIT-II

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| 4 | a Differentiate between break and continue. With suitable Example. | 5M |
| | b Write a program to generate 'n' Fibonacci numbers. | 5M |

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| 5 | Write program arithmetic operations by using switch condition. | 10M |
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UNIT-III

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| 6 | a Define an array. And explain types of arrays with suitable examples. | 5M |
| | b What is recursion? | 5M |

OR

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| 7 | Define bellow Statements:- | |
| | a Actual and formal arguments. | 5M |
| | b Global and local variables. | 5M |

UNIT-IV

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| 8 | a Define pointer. How to declare and initialize it. | 5M |
| | b Explain the concept of array of pointers with examples. | 5M |

OR

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| 9 | Explain the following string handling functions with example:
a. strcpy() b. strcmp() c. strcat() d. strlen() e. strncat() | 10M |
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UNIT-V

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| 10 | a Define Structure? How to Initialize a Structure. | 5M |
| | b Write a C program to copy the contents from one file to another file. | 5M |

OR

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| 11 | a Write some of the differences between Structure and Union. | 5M |
| | b Write a C program to copy the contents from one file to another file. | 5M |

END