

Reg. No:

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

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

B.Tech I Year I Semester Supplementary Examinations June 2019
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)

- | | | | |
|---|---|-------------------------------------------|----|
| 1 | a | Why do we use header files? | 2M |
| | b | Differentiate between break and continue. | 2M |
| | c | What is #include, #define directives | 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

- | | | | |
|---|---|-----------------------------------------------------------|----|
| 1 | a | Draw the flowchart to find the greatest of three numbers. | 5M |
| | b | Define keywords and constant. | 5M |

OR

- | | | | |
|---|---|-------------------------------------------------------------------|-----|
| 2 | a | Discuss about the following operators in C language with example. | 10M |
|---|---|-------------------------------------------------------------------|-----|

UNIT-II

- | | | | |
|---|---|------------------------------------------------------------------------|----|
| 3 | a | Write a program to find the sum of even and odd numbers from 1 to 100. | 5M |
| | b | Draw flowchart for else if ladder and nested if-else. | 5M |

OR

- | | | | |
|---|--|---------------------------------------------------------------------|-----|
| 4 | | List and explain loop control (or) Decision Making statements in C. | 10M |
|---|--|---------------------------------------------------------------------|-----|

UNIT-III

- | | | | |
|---|---|--------------------------------------------------------------|----|
| 5 | a | Write a program to print the array elements in reverse order | 5M |
| | b | What is meant by call-by value and call-by reference | 5M |

OR

- | | | | |
|---|---|-------------------------------------------------------------------------|----|
| 6 | a | Write a C program using function to exchange two numbers using pointers | 5M |
| | b | Write a program to print the array elements in reverse order | 5M |

UNIT-IV

- | | | | |
|---|---|--------------------------------------------------------|----|
| 7 | a | Discriminate puts() and gets(). | 5M |
| | b | Explain the concept of array of pointers with examples | 5M |

OR

- | | | | |
|---|---|----------------------------------------------------------------------------------------------------------------------|-----|
| 8 | a | Write a C program to count the number of vowels, consonants, digits, spaces and special characters in a given string | 10M |
|---|---|----------------------------------------------------------------------------------------------------------------------|-----|

UNIT-V

- | | | | |
|---|---|-----------------------------------------------------------------------|----|
| 9 | a | Write about different error handling functions on files? | 5M |
| | b | Write a C program to read and display student details using structure | 5M |

OR

- | | | | |
|----|---|------------------------------------------------------------------------------|----|
| 10 | a | Explain the following preprocessor directives | 5M |
| | b | Explain file handling functions: a. fseek() b. ftell() c. rewind() d. feof() | 5M |

END