

SILVER OAK COLLEGE OF ENGINEERING & TECHNOLOGY
BE - SEMESTER-I • MID SEMESTER-I EXAMINATION – WINTER 2018
SUBJECT: Programming for Problem Solving (3110003) (ME/CL/AE/IT)

DATE: 08-10-2018

TIME:02:00 PM to 03:30 PM

TOTAL MARKS: 40

- Instructions:** 1. All the questions are compulsory.
 2. Figures to the right indicate full marks.
 3. Assume suitable data if required.

- Q.1 (a) Give Answer with most suitable/correct option. [05]
 (i) Which of the following is application software?
 (a) Compiler (b) MS Word (c) Assembler (d) Interpreter
 (ii) What will be printed if we type the statement `printf("%d\n",'d');`?
 (a) 0 (b) 100 (c) error (d) d
 (iii) Which of the following is a symbol for Logical AND operator?
 (a) || (b) && (c) \$\$ (d) &
 (iv) A float requires _____ bytes in memory
 (a) 2 (b) 1 (c) 4 (d) 3
 (v) Which of following loop is executed at least once?
 (a) while (b) for (c) do...while (d) all
- (b) Explain basic data types of C. [05]
- Q.2 (a) Explain in brief the structure of C Program and features of C language. [06]
 (b) Explain switch case in "C" with the help of syntax and example. [05]

Page 1 of 2

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1) System Software 2) Interpreter 3) Assembler 4) Loader
- OR**
- Q.2 (a) Explain various operators used in C language [06]
(b) Write a C program to find factorial of a given number. [05]
(c) Draw the Block Diagram of Computer Architecture and Identified each block. [04]
- Q.3 (a) Discuss general form of following with example. [06]
(1) IF (2) Nested IF...ELSE (3) Continue & goto
(b) Differentiate: Flowchart and Algorithm and Draw flowchart to find largest among three numbers. [05]
(c) Explain printf() and scanf() by giving their syntax and example. [04]
- OR**
- Q.3 (a) Explain while, do...while and for loop with syntax and example. [06]
(b) Define C Tokens with an example. [05]
(c) What is array? Give example of array. [04]

Page 2 of 2

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Page 2 of 2