

SILVER OAK COLLEGE OF ENGINEERING & TECHNOLOGY
BE - SEMESTER-II • MID SEMESTER-I EXAMINATION – SUMMER 2019
SUBJECT: PROGRAMMIN FOR PROBLEM SOLVING (310003) (CE/EC)

DATE: 15-03-2019

TIME: 12:00 pm to 1:30 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) Draw the Block Diagram of Computer Architecture and Identified each block. [03]
 (b) Explain printf() and scanf() by giving their syntax and example. [03]
 (c) What is array? Which are the different types of array? Write a C program to read 10 numbers from user and store them in an array and display Sum. [04]
- Q.2 (a) Explain various operators used in C language. [06]
 (b) What is a string? How string is stored in C? Give the various functions with their use for string processing.(strcat(), strlen(),strcpy(), strrev()) [05]
 (c) Differentiate : Flowchart and Algorithm. Explain flow chart with suitable example(Any Two).[04]
 Count Odd and Even Numbers, Sum of 10 Numbers, Find largest among three numbers]

OR

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- Q.2 (a) Discuss general form of following with example. (1) IF (2) Nested IF...ELSE (3) Continue & goto [06]
(b) Explain in brief the structure of C Program and features of C language. [05]
(c) Define following: 1) Assembler 2) Compiler 3) Linker 4) Loader [04]

- Q.3 (a) Explain Entry Control loop and Exit Control loop with flowchart and example. [06]
(b) Explain basic datatypes in C. [05]
(c) Write a C program to find $1+1/2!+1/3!+1/4!+.....+1/n!$. [04]

OR

- Q.3 (a) 1) Write a C program to check whether the entered character is capital, small letter, digit or any special character. [06]
2) Write a C program to find factorial of a given number.
(b) Explain C tokens with example. [05]
(c) What is Type conversion and Type casting? State difference between them with example. [04]
[Implicit & Explicit]

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