

**SILVER OAK COLLEGE OF ENGINEERING & TECHNOLOGY**  
**BE - SEMESTER-1 • MID SEMESTER-II EXAMINATION – WINTER 2018**  
**SUBJECT: PPS (3110003) (ME/CL/IT/AE)**

DATE: 20/12/2018

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) What is a string? How string is stored in C? [3]  
 (b) Write a program to print address of variable using pointer. [3]  
 (c) Write a C program to count number of words in a given string. [4]
- Q.2 (a) What is function? List various categories of functions. Write a program using function to find maximum if two numbers [6]  
 (b) What is a pointer? How and when pointer is used? Explain with example. [5]  
 (c) Give the various functions with their use for string processing. (strcat(), strlen(), strcpy(), strrev()) [4]

**OR**

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- Q.2 (a) What is function? Explain the function definition, function prototype and function call with example. [6]  
(b) Write a C program to reverse string. [5]  
(c) Write a C program to swap the two values using pointers. [4]
- Q.3 (a) Write a Program to demonstrate the “call by value” and “call by reference” concept in C [6]  
(b) What is user-defined function? Explain actual argument and formal arguments. [5]  
(c) Write a program to find factorial of a number using recursion. [4]
- OR**
- Q.3 (a) Write a function in the program to return 1 if number is prime otherwise return 0 [6]  
(b) What is recursion? Explain it with example. [5]  
(c) How Pointer is initialized? What are the benefits of the Pointer? Explain with example. [4]

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