

S.B. Roll No.....

**COMPUTER PROGRAMMING AND APPLICATIONS**

**3<sup>rd</sup> Exam/Elect/EEE/0526/0352/6904/ Nov'16**

**Duration: 3hrs**

**M. Marks: 75**

**SECTION-A**

**Q 1. Do as directed:**

**1.5x10=15**

- a. The comma and Blank spaces be included within constants.(T/F)
- b. The scanf() function reads ..... From stdin.
- c. Any C statement always ends with .....
- d. A string in C is actually a character data type. (T/F)
- e. Arithmetic operators are.....
- f. C is a case sensitive language. (T/F)
- g. The C was invented by Dennis Rithcie at Bell Labs in 1972.(T/F)
- h. In MATLAB, technical problems can be solved more faster than C,C++.(T/F)
- i. C sometimes referred to as a"high-level-language".(T/F)
- j. The closing brace of main function signals the end of the program.(T/F)

**SECTION-B**

**Q 2. Attempt any five questions:**

**5x6=30**

- I. Explain If-else statement with an example.
- II. Write a program to print "HELLO EVERYONE" on output screen.
- III. Define flow chart. Explain different types of shapes used in flow chart. Also give an example of a flow chart.
- IV. Explain primary data types used in C.
- V. Explain different storage classes used in C.
- VI. What is the function of compiler in C.?
- VII. Explain the role of MATLAB and PSIM in electrical engineering.
- VIII. What are advantages of C.?

**SECTION-C**

**Q 3. Attempt any three questions:**

**3x10=30**

- (i) Write a program to find power of a number.
- (ii) Explain the following string functions with examples:
  - (a) strlen ( )
  - (b) strcmp ( )
  - (c) strcat ( )
  - (d) strcpy ( )
- (iii) What is the difference between a structure and union?
- (iv) Explain all operators used in C with the aid of suitable examples.
- (v) Differentiate between high level language and machine language.