Code No: R161231   (**R16**)   (SET - 1)

I B. Tech II Semester Regular/Supplementary Examinations, April/May - 2018
COMPUTER PROGRAMMING
(Agricultural Engineering**)**

Time: 3 hours   Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is Compulsory
3. Answer any **FOUR** Questions from **Part-B**
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PART –A

1. a) How bits and bytes are useful in computer programming?   (2M)

    b) What is an expression? How is an expression differing from variables?   (2M)

    c) Write the limitations of if-else statement.   (2M)

    d) What is the difference between local and global variable?   (2M)

    e) What is the difference between an ordinary variable and an array variable?   (2M)

    f) What are the uses of nested structures?   (2M)

    g) What is dangling memory?   (2M)

PART -B

2. a) Discuss about application and system software.   (7M)

    b) Give the features of machine and assembly languages.   (7M)

3. a) What is data type? Explain different data types used in C language with their   (7M)
        features.

    b) Describe input and output (printf and scanf) functions used in C functions with (7M)
        examples.

4. a) Explain various iterative statements available in C language with examples.   (7M)

    b) Write a C program to find the factorial of a given number with all test conditions. (7M)

5.   Explain the following storage classes in detail with examples: (14M)
        (i) auto (ii) static (iii) extern (iv) register

6. a) Discuss the initialization and accessing of multi-dimensional array elements.   (7M)

    b) Write a C program to concatenate two strings without using library functions.   (7M)

7. a) What are the different dynamic memory allocation functions in C? Explain with an (7M)
        example.

    b) Write a program to read the contents of three files and find the largest file. (7M)