FACULTY OF ENGINEERING & Technology

B.E / B. Tech. (Bridge Course) I – Semester (Backlog) Examination, June 2017

Subject: Programming in C

Time: 3 Hours **Max.Marks: 75**

Note: Answer all questions. All questions carry equal marks.

1 a) What is a flow chart? What are various symbols used in flow chart?
   b) Write an algorithm for printing even numbers from 1 to n, where 'n' is any given natural number.

OR

   c) Explain the functions of various units of a computer.
   d) Draw a flow chart for calculating the factorial of a given number.

2 a) Explain types of constants in 'C' language.
   b) Write syntaxes and explain the scanf() and printf() statements.

OR

   c) Write the general structure of a C program.
   d) Explain macro definition in pre-processor directives.

3 a) What is ternary operator?
   b) Give syntax and example.
   c) Write a program to find x to power y, where x and y are any given numbers.

OR

   d) Explain Library Functions.
   e) Write a program to print, prime numbers between 1 to n, where 'n' is some given number.

4 a) Explain the features of a static storage class variable with an example program.
   b) Write a program to find maximum and minimum in a given set of numbers.

OR

   c) What is a recursive function and write the differences between recursion and iteration.
   d) Write a program to print sum of 2 matrices of order mxn.

5 a) What are the operations which can be performed on pointers.
   b) Write a program to copy the contents of one file to another file and print them on the screen.

OR

   c) In how many modes a file can be opened? What are they?
   d) Write a program to read details of students in a class, with their marks. Now print the details of students who have passed in an examination.

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