Mid-Term Examination

B.Tech- 1st Sem   Feb- March 2022

Paper Code: ES-101   Subject: Programming in 'C'

Time: 1.5 hours   Max. Marks: 30

Note: Q. No. 1 is compulsory. Attempt any two more question from the rest.

Q1.   Write brief note on following:-   (CO1) (2*5=10 marks)

   (a.) High level Vs Low level language.

   (b.) Algorithm Vs Flow chart.

   (c.) Break Vs Continue statement.

   (d.) Linker Vs Loader.

   (e.) Formal Vs Actual Arguments.

Q2. (a) Explain all the Storage classes. What is the difference between automatic and static Storage class.   (CO2) (5 marks)

   (b) Write a program to print Fibonacci series up to n number using recursion.

                                                                     (CO2) (5 marks)

Q3. (a) Differentiate between call by value and call by reference parameter passing mechanism with the help of an example.   (CO2) (5 marks)

   (b) Compare = (single equal) and = = (double equal) operators. What is the output of following program: (CO2)(5 marks)

   int a=8, b=10,c;

   C= a^{++} + b + a^{++};

   Printf("%d",c);

   C = $^{++}$a + b + $^{++}$c;

   Printf("%d",c);

Q4. (a) Write a program to check given string is palindrome or not.   (CO2) (5 marks)

   (b) Explain all the data types of C language with example.   (CO2) (5 marks)