| | | | Guru Nanak Dev En | | | | | |
|---|---|--|--|---------------|----------------------------|-------------------|--|-------|
| | | | Department of 1 | Information T | echnology | | | |
| Program | | | B.Tech.(ME,EE,CIVIL) Semester | | | 1 st | | |
| Subject Code | | | ESC-104 | | Subject Title | | PPS | |
| Mid Semester Test (MST) No. Max. Marks | | | 2 | | Course Coordinator(s) | | Er,Goldendeep Kaur Er.Kuljeet Kaur, Er.Harkomalpreet Kaur Er.Ranjodh Kaur Er.Sidharth Jain | |
| | | | 24 Time Duration | | | 1 hour 30 minutes | | |
| Date of MST | | | 3 Feb, 2022 |] | Roll Number | | | |
| Note: Atter | npt all que | estions | | | | | | |
| Q. No. | Question | | | | | | COs, RBT level | Marks |
| Q1 | a) Create a code for Finding the roots of equations. | | | | | | CO8, L6 | 4 |
| | b) Create a code for Parameter passing in functions. | | | | | • | 4 | |
| Q2 | a) Write a program to display the factorial of a number using recursion. | | | | | CO5, L6 | 4 | |
| | b) Compare call by value and call by reference. | | | | | CO5, E6 | 4 | |
| Q3 | a) Complete the following code or correct the following code if something | | | | | | CO5, L6 | 4 |
| | | time{ =10; s=20; s=35; t3; tructures are diff | erent from an array? e for Bubble sort | | sort and sele | ction sort | | 4 |
| | b) Write a pseudo-code for Bubble sort , Insertion sort and selection sort algorithm and its concepts. | | | | | | | |
| Course Ou Students wi | tcomes (Call be able | CO) to nulate simple algorith | m for arithmetic and log | | | ı | | |
| 2 | To translate the algorithms to program(in c languages) | | | | | | | |
| 3 4 | To test and execute the programs and correct syntax and logical errors To implement conditional branching, iteration and recursion | | | | | | | |
| 5 | To implement conditional branching, iteration and recursion. To decompose a problem into function and synthesize a complete program using divide and conquer approach. | | | | | | | |
| 6 | To use array, pointer and structure to formulate algorithms and programs | | | | | | | |
| 7 | To apply programming to solve matrix addition and multiplication problems and searching and sorting problems. | | | | | | | |
| 8 | To apply programming to solve simple numerical method problems, namely rot finding of function, differentiation of function. | | | | | | | |
| | | ple integration. | . r | - F | , <u>J</u> - J | <i>J</i> = | | |
| RBT | • | | king Levels (LOTS) | | Higher Order | Thinking Lev | els (HOTS) | |
| Classification | | | T. 2 | 1 | T. | | T.C. | |
| RBT Level | | L1 | L2 | L3 | L4 | L5 | I | L6 |

Analyzing

Applying

Evaluating

Creating

Understanding

Remembering

Number RBT Level Name