| Guru Nanak Dev Engineering College, Ludhiana Department of Applied Sciences | | | | | |
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| Subject Code | ESE-104 | Subject Title | Programming for Problem | | |
| | | | Solving | | |
| Mid Semester Exam (MSE) | 1 | Course Coordinator(s) | Ranjodh Kaur, Siddharth | | |
| No. | | | Jain, Gagneet Kaur, Kapil | | |
| | | | Sharma,Jaswant Singh,Sita | | |
| | | | Rani, Kuljit Kaur | | |
| Max. Marks | 24 | Time Duration | 1 hour 30 minutes | | |
| Date of MSE | 28 th September, | Roll Number | | | |
| | 2023 | | | | |

| Note: | Attempt all questions. All assumptions must be clearly stated. | | |
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| Q. No. | Question | COs, RBT level | MM |
| Q1 | Differentiate between algorithm and pseudocode with the help of an example. | CO1, L2 | 2 |
| Q2 | What will be the output for the following code snippet: int main () { int i=1,j=1; for(i=1;i<=3;i++) { if(i==2 && j==2) { printf("in continue"); continue; } printf(" %d",i); printf(" %d",j); if(++i==4 j==5) { | CO4, L3 | 2 |
| Q3 | What goes behind the scene when you attempt to get an output from a source code in C programming language? Elaborate the process steps with the help of diagram. | CO2, L2 | 4 |
| Q4 | Given a number N and a digit D . Write a program to find how many times the digit D appears in the number N. (For example N is 13314, D is 3, answer will be 2. Value of N and D should be read through the keyboard and case must be processed if N and D are positive). | CO4, L3 | 4 |
| Q5 | "Initialization is always out of the loop", this statement given in double quotes is true for which loop(s); compare and contrast the identified loop(s) with other loop(s) in detail. | CO4, L4 | 4 |
| Q6 | Design a menu driven code that does the following: If '1' is entered, user-defined function 'add' must be able to add two positive numbers using a user-defined function If '2' is entered, user-defined function 'multiplication' must be able to print multiplication table of positive integer numbers from 1 to n. If any other integer is entered, code must be able to terminate with a suitable message. | CO6, L6 | 8 |