

MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL

MINI TEST, APRIL-2022

Department of Computer Science & Engineering

Course: B. Tech.

Semester: II

Subject: COMPUTER PROGRAMMING

Time: 9:30 AM to 10:30 AM (60 minutes)

Date: 18/04/2022

Max Marks: 10

NOTE:

1. In the first page, write your name, roll number and scholar number.
2. Write roll number and page number on top of each page.
3. All questions are compulsory.

Q. No.	Questions	Marks
1.	Find the Output of the following program segment with explanation: main() { int i=2, j=3, k, l; float a, b; k=i/j*j; l=j/i*i; a=i/j*j; b=j/i*i; printf("%d %d %f%f",k, l, a, b); return 0; }	1
2.	Find the Output of the following program segment with explanation: main() { int x=3, y, z; y=x+10; z=x<10; printf("x=%d y=%d z=%d",x, y, z); return 0; }	1

3.	Write a C program and draw the flowchart for given problem : A company provides 5% of the basic salary as TA & 10% of the basic salary as HRA write a program to ask the user to input his basic salary and calculate his total salary assume basic salary to unsigned int.	2
4.	Write a C program along with a flowchart to evaluate the result (total marks & percentage) of a student by accepting marks in three subjects.	2
5.	Write a program and draw the flowchart to check whether the given character is an uppercase alphabet or not using the if-else conditional statement in C.	2
6.	a) Convert $(72.125)_{10}$ to its binary equivalent. b) Convert $(67.625)_{10}$ to its octal equivalent.	1
7.	a) Convert $(8D5E)_{16}$ to its decimal equivalent. b) Convert $(1011111)_2$ to its decimal equivalent.	1