		Reg.No.									
	INTERNATIONAL CENTRE FOR APPLIED SCIENCES										

MAHE, MANIPAL B.Sc. (Applied Sciences) in Engg. End – Semester Theory Examinations – NOV 2021 I SEMESTER - INTRODUCTION TO COMPUTERS & PROGRAMMING (ICS111)

Time: 3 Hours	Date: 27 NOV 2021	Max. Marks: 50
✓ Answer ALL quest✓ Missing data, if any	ions. 7, may be suitably assumed.	
1B. Draw the flowchart to	0	
C		(2M +4M +4M)
C	find all kinds of roots of a quadratic equa (syntax and example code)	
		(5M +2.5M +2.5M)

3A. Evaluate the code/expression :

i)	(- 25/3) %2.0
ii)	int x, y, z; x=5; y=5; z= x + y ; cout< <z;< th=""></z;<>
iii)	int a=15; int b=5; (a>b) ? cout< <a :="" cout<<b;<="" td="">
iv)	int i=5·

iv) int i=5; while(i > 1); i++;

cout<<i;

3B. What are the differences between entry control and exit control loop? [Write any three differences with example code.]

(4M +6M)

4A. Illustrate bubble sort for data list { 9, 3, 5, 1, 6 }. Show all the steps clearly.

4B. . Define the following with the help of prototype and example code:

i) strcpy() ii) strcmp()

(5M + 5M)

5A. Define Employee structure with name, ID and salary as it's data members. Create two Employee variables in main() and input the data into these variables from user and display the data on output screen.

5B. What is an inline function? Write a complete C++ program to explain the inline function.

(5M+5M)

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