Roll no.....

## Mid Term (Odd) Semester Examination October 2024

Vamo		and semester: BCA FOUNDATION OF 02		ING	
	: 1.5-hour	1			Maximum Marks: 50
Note (i) (ii	Answer all t	he questions by choon carries 10 marks		ne sub questions	
Q1. a.	Explain the stru	ucture of a C progra	am. Write a C progr OR	ram to swap two numbers.	(10 Marks) CO1
b.	What are the fe	eatures of the C pro	gramming language	e? Explain the C program co	mpilation process. CO1
	Draw a flow ch numbers.	nart to check larges	t among three numb	pers. Also Write a C code to	(10 Marks) print largest among three CO2
	Vrite a C programowing condition	-		generate bill. Bhogilal sells CO 2	mangoes and bill is generated on
	•	50>Number of ma	pes >=50, rate =rs 1 angoes>=25, rate =rs 20 pes <25, rate= rs 20	rs 15 per mango	
Q3. a.	Explain the dif while loop.	ference between a	while and a do-whi	le loop. Write a C code to fin	(10 Marks) and factorial of a number using CO2
b.	Write the synta using switch st			rogram for implementing ba	sic arithmetic operations (+,-,/,*) CO2
Q4. a.	What is meant examples.	by type conversion	? Why it is necessa	ry? Explain about implicit a CO1	(10 Marks) nd explicit type conversion with
b.	Explain ternary Write a C prog	-	•	ing ternary operator.	CO2
Q5. a.	Write a C prog Enter the numb 1 2 3		mber of rows N and	d print the following pattern	(10 Marks) CO2
	4 5 6 7 8 9 10 11 2 13 14 15		OR		



## Mid Term (Odd) Semester Examination October 2024

```
b. Guess the output of the following C code.
                                                                                           CO1
                                                      2.5 marks each
       i.
       #include <stdio.h>
       int main() {
       int x = 5, y = 3, z = 2;
       int result = x > y & y \le z;
      printf("%d\n", result);
      return 0;
      ii.
    #include <stdio.h>
    int main() {
      int a = 10;
      float b = 3.5;
      int result = a / b;
      printf("%d\n", result);
      return 0;
      iii.
    #include <stdio.h>
    int main() {
      int a = 10;
      float b = 3.5;
      int result = a < b?a:b;
      printf("%d\n", result);
      return 0;
      iv.
    #include <stdio.h>
    int main()
       char ch='A';
       printf("%c-%d",ch+32,ch+32);
       return 0;
```