

Roll No. ....

Total No. of Questions : 9]  
(2102)

[Total No. of Printed Pages : 4

**BCA (CBCS) RUSA Ist Semester  
Examination**

**3988**

**C-PROGRAMMING**

**BCA-0104**

**Time : 3 Hours]**

**[Maximum Marks : 70**

*Note :- Attempt five questions in all, selecting one each from  
Unit-I to Unit-IV. Part-A (Q. No. 1) is compulsory.*

**Part-A**

**(Compulsory Question)**

I. (A) Multiple Choice Questions :

- (i) All the keywords in C are .....
- (a) Lower case
  - (b) Upper case
  - (c) Camel case
  - (d) None of these

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- (ii) Which of the following return type cannot be used for a function in C ?
- (a) char\*
  - ☒ (b) struct
  - (c) void
  - (d) None of these
- (iii) How many times will be the following loop executed ?
- for (j = 1; j <= 10 : j--)*
- ☒ (a) Forever
  - (b) Never
  - (c) 10
  - (d) 11
- (iv) Which one of the following is a loop construct that will always be executed at least once ?
- (a) For loop
  - (b) while loop
  - ☒ (c) do while
  - (d) switch
- (v) What will be the final value of x in the following C code ?

```
void main()
{
    int x = 5*9/3+9;
}
```

- (a) 3.75
- (b) depends on compiler
- ☒ (c) 24
- (d) 3

1x5=5

(B) True or False :

(i) The value of a pointer is always an address.  
(True/False)

(ii) A semicolon after the while loop will generate a compiler error. (True/False)

(iii) The case labels in a switch statement can be an expression or a variable.  
(True/False)

(iv) All variables must be declared before they are used. (True/False)

(v) Escape sequences are string constants.  
(True/False)

(C) Answer the following in **25** to **50** words each :  $1 \times 5 = 5$

(i) What are the characteristics of C language ?

(ii) What are Identifiers ?

(iii) Differentiate between formal argument and actual argument.

(iv) Explain Break Statement.

(v) What are escape sequences ?  $4 \times 5 = 20$

### **Part-B**

#### **(Unit-I)**

10 each

2. Explain the concept of declaration in C. What happens when a variable is declared ?

*Or*

3. What are Data Types ? Explain derived data types in detail.

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**(Unit-II)**

10 each

4. What are String Handling Functions ? Explain *two* string input-output library functions available in C.

*Or*

5. Explain logical and relational operators in detail.

**(Unit-III)**

10 each

6. Discuss various loop control structure in C. Write a program to show prime numbers between 0 and 50.

*Or*

7. What are arrays ? How are values stored in an array ?

**(Unit-IV)**

10 each

8. What are Functions ? Write a program to calculate the sum of 2 numbers to show a function accepts arguments and return a value.

*Or*

9. What are Pointers ? How are pointers to an array declared ?