

Total No. of Questions : 9]
(1108)

[Total No. of Printed Pages : 4

**B.C.A. UG (CBCS) RUSA 1st Semester
Examination**

4208

**C-PROGRAMMING
BCA-0104**

Time : 3 Hours]

[Maximum Marks : 70

Note :- Attempt five questions in all. Q. No. 1 (Part-A) is compulsory. Also attempt one question from each Unit i.e. I, II, III and IV.

Part-A

(Compulsory Question)

1. (A) (i) The C language was developed at
..... Bell Laboratories
- (ii) A character instructs the computer to move the control to the next line.
- (iii) Stdio.h refers to standard I/O header file.
(True/False)
- (iv) The underscore character is allowed in identifier naming.
(True/False)

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(v) Name the format specifier that can be used to print an integer variable.

(vi) In case of the do..while, the statement block is executed at least once.

(True/False)

(vii) Dividing a pointer variable with a number is not allowed.

(True/False)

(viii) The process of a function calling itself is called as recursion.

(ix) The symbol for logical AND operator is &.

(x) Puts() function is used to

1×10=10

(B) (i) Differentiate between array and variable.

(ii) Write a note on arithmetic operators.

(iii) What is meant by function definition ?

(iv) Write a short note on integer constants.

(v) Discuss the various rules for identifier naming.

5×4=20

Part-B

(Unit-I)

2. Write and explain the basic concepts of a C program. 10

3. Explain in detail the various data types in C language. 10

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Part-C

(Unit-II)

4. Write a C program to find maximum of two numbers using ternary operator.
5. Explain the following functions : 10
- (i) printf()
 - (ii) scanf()
 - (iii) gets()
 - (iv) getch()

Part-D

$4 \times 2\frac{1}{2} = 10$

(Unit-III)

6. What is an array ? Explain the declaration and initialization of one and two dimensional arrays with example. 10
7. Develop a C program to reverse of an integer number NUM and check whether it is PALINDROME or NOT. 10

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Part-E
(Unit-IV)

8. What is function parameter ? Explain different types of parameters in C functions with the help of programming example. 10
9. (i) What is a pointer ? Explain how the pointer variable declared and initialized.
- (ii) What is dynamic memory allocation ? Write and explain the different dynamic memory allocation functions in C. 5,5