



0001518

NC-1424

First Year B. C. A. (Sem. II) Examination
September / October - 2011
204 - Programming Language - I

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दस्तावेज निशानावाणी विगतो उत्तरपत्री पर अवश्य ब्रजवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
F. Y. B. C. A. (SEM. 2)

Name of the Subject :
204 - PROGRAMMING LANGUAGE - 1

Subject Code No. : 1 4 2 4 Section No. (1, 2,...) : NIL

Seat No. :

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Student's Signature

- (2) All questions are compulsory.
(3) Do not interchange sub-questions.

1 Answer the following in brief : (any seven) 14

- (1) Explain the significance of main().
- (2) Explain the term modular programming.
- (3) Determine the value of following logical expression :
For $x = 9, y = 6, z = 3$
 - (i) $x > y \parallel z < x$
 - (ii) $x == z \&\& z > y$
- (4) What is static data type ? What is a use of it ?
- (5) What will be the effect of following in C program :
for (i = 1, <= 50, i++)
- (6) Differentiate between float and double data type.
- (7) What do you mean by null terminated array ?
- (8) What is type casting in C ?

2 Do the following : 13

- (a) Write a note on Union. How does it differ from structure ? 6
- (b) Write a 'C' program to read 3×3 matrix and find out LCM of the diagonal elements. 7

OR

- (b) Write a program to display the following pattern for 7
given n : if n = 4 then

```
1
2 3 2
3 4 5 4 3
5 6 7 8 7 6 5
```

- 3 Attempt the following : 14

- (a) Explain the use of bit field in Union. 3
(b) Write a program to input a string and extract m 5
character string from nth position.

OR

- (b) Write a program to read 2 arrays of 10 numbers 5
each. Merge and sort them in descending order.
(c) Explain the need of array variable. Differentiate 6
character and numeric array.

- 4 Answer the following : 14

- (a) Write a note on nested structure. 3
(b) Write a program to create a structure Customer with 5
fields like CustNo, Name, Add and email. Take array
of structures and input the values for member variables
and display it in proper format.

OR

- (b) Explain arithmetic operation on pointers. 5
(c) Write a program to create a structure Employee 6
with eno, name, salary and Join_date. Read at least
5 records and display records of employees whose salary
is more than 20000.

- 5 Do as directed : 15

- (a) Explain any of the loop structure with example. 4
(b) Write a program to read a line and display number 5
of words, characters and digits in it.
(c) Write a program to convert binary to decimal number. 6