



SB-1424

First Year B. C. A. (Sem. II) Examination
March / April – 2011
204-Programming Language-I

Time : Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.
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

- (i) Give the rules for writing one dimensional array definition.
- (ii) What is a purpose of external variable ? What is its scope ?
- (iii) What is structure member ? What is a relationship between structure member and structure ?
- (iv) What do you mean by overflow and underflow of data ?
- (v) Differentiate between if and goto statement.
- (vi) Differentiate between break and continue.
- (vii) How can you assign hexadecimal and octal value to integer value ?
- (viii) Explain any two string functions.

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1

[Contd...

2 Do as directed :

(a) Write a program to display the following pattern for say n=7

```
B A Z Y X W V
  U T S R Q P
    O N M L K
      J I H G
        F E D
          C B
            A
```

7

OR

(a) Write the different features of macro and compare it with variable.

7

(b) Define the structure called 'Inventory' that will describe the information like Ino, Iname, price, and qty. Read record for 5 items and write a program to sort on name of the item. Display records in appropriate form.

7

3 Attempt the following :

(a) Write a menu driven program to carry out the following operations on array :

8

- (a) Traversing
- (b) Insertion
- (c) Deletion
- (d) Sorting

OR

(a) Explain operators in C with their precedence.

6

(b) Explain different branching structure in 'C'.

4 Answer the following :

(a) Write a program to display circular matrix of given number N. If input is 4 then

8

```
16 15 14 13
 5 4 3 12
6 1 2 11
7 8 9 10
```

OR

(a) Explain the type conversion. Also describe the conditions in which explicit and implicit conversion is used

8

(b) Explain any three number functions in C.

6

5 Do as directed :

- (a) How can you format an output of a 'C' program? **3**
- (b) How can '.' Operator is used inside a Union and a structure? **5**
- (c) Explain about structured programming. **6**

OR

- (c) Write a program to input a word and display the variations of the word. **6**
E.g. If input is 'space'
Then output should be
space paces acesp cespa espac.
