



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 दशांशविक निशानीवाणी विगतो उत्तरवडी पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="F. Y. B. C. A. (Sem. 2)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="204-Programming Language - 1"/>	<input type="text"/>
Subject Code No. : <input type="text" value="1"/> <input type="text" value="4"/> <input type="text" value="2"/> <input type="text" value="4"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,.....) : <input type="text" value="Nil"/>	

- (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.

- 2 Do as directed :
- (a) Write a program to display the following pattern 7
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

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.

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