



RF-1829

B.C.A. (Sem. II) Examination

April / May – 2010

204 : Programming Language - I
(Old Course)

Time : 3 Hours]

[Total Marks : 70

Instruction :

नीचे दृष्टावेव निशानीवाणी विगतो उत्तरवही पर अवश्य लपनी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. C. A (Sem. II)"/>	<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="8"/> <input type="text" value="2"/> <input type="text" value="9"/>	<input type="text"/>
Section No. (1, 2,.....): <input type="text" value="Nil"/>	
Student's Signature	

- 1 Answer in short : (any seven) 14
- What do you mean by variable? How do variables and symbolic names differ?
 - How can you write multiple assignment statements in 'C'?
 - What is the output of following statement?
`printf ("%d", ('A' & 127));`
 - Compare in terms of their functions : break Vs goto.
 - What is the difference between [] and () in 'C' language?
 - What does for (;) statement do in 'C' language program?
 - Can you use goto statement? Justify your answer.
 - Describe the limitations of using getchar() and scanf() functions for reading strings.
- 2 (a) Write a note on basic data types in 'C'. How can we do implicit and explicit conversion? When it is needed? 5
- (b) Character strings in C are automatically terminated by the NULL character? Explain if yes, how this feature helps in string manipulations. 4

OR

- (b) What do you mean by preprocessor statement?
– Explain.

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[Contd...

- (c) Write a program to generate following series up to given steps : 5
 1 3 6 10 15.....
- OR**
- (c) Write a program to generate following series upto given steps :
 0 1 1 2 3 5 8.....
- 3** (a) Explain following functions with example : (any three) 6
 (i) strcat () (ii) strcmp ()
 (iii) strcpy () (iv) strlen ()
- (b) What is the difference between "if...else" and "?:" operator? 4
- OR**
- (b) Explain the need of array variable.
- (c) Write a program to read a word from keyboard and sort in alphabetical order. 5
 I/P=> narmad.
 O/P=aadmnr
- 4** (a) Write a note on different iterative statements available in 'C' language. Explain with example. 8
- (b) Write a program to read matrix of 3 * 3 dimensions and carry out following operations : 6
 (i) Print transpose
 (ii) Print highest value in each row
 (iii) Print sum of each row
 (iv) Exit
- 5** (a) What do you mean by array of structures? 4
- (b) Explain the memory allocation in the case of union storage of data. 4
- (c) Write a program to design a structure student to contain name, date_of_birth (dob) and total marks. Develop a program to read 10 students and list them in descending order of total marks. 5
- OR**
- (c) Define a structure called "cricket" that will describe the following information :
 Player name
 Team name
 Batting average
 Using cricket, declare and array player with 50 elements and write a program to read information all the 50 players and print a team-wise list containing names of players with their batting average.