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**RF-4795**

**M. C. A. (Sem. I) (ATKT) Examination**  
**April / May – 2010**  
**Paper - 103 : Computer Programming &**  
**Programming Methodology**

Time : 3 Hours]

[Total Marks : 70

**Instruction :**

(1)

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="M. C. A. (Sem. 1) (ATKT)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="103 : Computer Prog. &amp; Prog. Methodology"/>	<input type="text"/>
Subject Code No. : <input type="text" value="4"/> <input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="5"/>	<input type="text"/>
Section No. (1, 2,.....): <input type="text" value="Nil"/>	<input type="text"/>
	Student's Signature

1 Do as Directed: 14

- (a) Write a note on call-by-value.
- (b) List out the data types available in C with its range and size.
- (c) Explain the concept of type-casting and type-promotion in 'C'.

**OR**

- (c) Explain 'nested if-else' statement with proper example.

2 Attempt any two from the following: 14

- (a) Describe usage of switch-case statement in C programming.
- (b) Explain the concept of recursion using proper example.
- (c) Describe 'nested-for' loop with proper example. Compare it with 'while' loop.

- 3** Do as directed : (any **three**) **21**
- (a) Explain one-dimension and two-dimension array in C with proper example.
  - (b) Describe getch ( ), getche ( ) and getchar ( ) function with proper example.
  - (c) Explain, giving example, *break* and *continue* statement.
  - (d) Explain the following built-in functions with example.
    - (1) strcmp ( )
    - (2) strcat ( )
    - (3) strlen ( )
    - (4) strncat :
- 4** Do as directed:- (any **three**) **21**
- (a) Describe storage classes in C.
  - (b) Define : Function Prototype. Discuss: user-defined-function. Differentiate between the formal and actual parameters.
  - (c) Write the syntax of structure and union. Compare structure and union with proper example.
  - (d) Compare the following :
    - (i) Call-by-value and Call-by-reference.
    - (ii) Array and Structure.
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