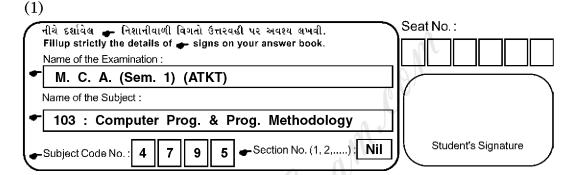**RF-4795**

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 दर्शावेल ☛ निशानीवाणी विगतो उत्तरवणी पर अवश्य लणवी.
> **Fillup strictly the details of ☛ signs on your answer book.**
>
> Name of the Examination :
> **M. C. A. (Sem. 1) (ATKT)**
>
> Name of the Subject :
> **103 : Computer Prog. & Prog. Methodology**
>
> ☛Subject Code No. : | 4 | 7 | 9 | 5 | ☛Section No. (1, 2,.....) : | **Nil**

Seat No. :

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'.

<div align="center">OR</div>

  (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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