



A-5702
M.C.A. (Sem. I) Examination
March / April - 2015
Paper - 103 : Computer Programming &
Programming Methodology

Time : 3 Hours]

[Total Marks : 70

Instruction :

<p>नीचे दशांशके निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : M.C.A. (Sem. I)</p> <p>Name of the Subject : Paper - 103 : Computer Programming & Programming Methodology</p> <p>Subject Code No. : 5 7 0 2 Section No. (1, 2,.....) : NIL</p>	<p>Seat No. : □ □ □ □ □ □</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div>
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- 1 Do as directed : (any two) 14
- (a) Describe the four basic data types. How could we extend the range of values they represent?
 - (b) Describe the purpose of commonly used conversion characters in a scanf() function.
 - (c) Write a program to determine whether a given number is 'odd' or 'even' and print message NUMBER IS EVEN or NUMBER IS ODD. Do it with else option and without using else.
- 2 Do as directed : (any two) 14
- (a) Explain call by value using proper example.
 - (b) Explain type casting and type promotion using proper example.
 - (c) Describe the usage and limitations of using getchar and scanf function for reading strings.

- 3** Do as directed : (any two) **14**
- (a) Write a 'C' program that reads a floating-point number and then displays the right-most digit of the integral part of the number.
 - (b) Distinguish between the following:
 - (i) Automatic and static variables.
 - (ii) Scope and visibility of variables.
 - (c) State the problems we are likely to encounter when we pass global variables as parameters to functions.
- 4** Do as directed : (any two) **14**
- (a) Give the general format of a structure definition. Also explain how to declare structure variables and how to access structure members?
 - (b) Define: pointer. How is a pointer initialized? What are the arithmetic operators that are permitted on pointers?
 - (c) Explain any 4 file handling functions using proper example.
- 5** Do as directed : **14**
- (a) Explain any 7 string built-in functions using proper example.
 - (b) Describe the characteristics and purpose of escape sequence characters.
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