

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

MCA (2015 & Onwards) (Sem.-1)
OBJECT ORIENTED PROGRAMMING IN C++
Subject Code : MCA-102
M.Code : 72708

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.
2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.
3. Use of non-programmable scientific calculator is allowed.

SECTION-A

1. What is the advantage of using OOP over functional programming? Explain.
2. a. WAP to print minimum of 3 integers using conditional operator.
b. WAP to compute sum of $1+2+\dots+n$ for input integer n.

SECTION-B

3. What is passing by constant reference? Explain with suitable example.
4. a. WAP to traverse an array using pointers.
b. WAP to pass an array to a function that returns the same.

SECTION-C

5. What is the difference between multiple and multi-level inheritance? Explain with examples.
6. Differentiate between the use of constructor and destructor with examples.

SECTION-D

7. What is polymorphism? How to implement using virtual function? Explain with an example.
8.
 - a. WAP to overload assignment operator.
 - b. WAP to read and write to text file.

SECTION-E

9. Write briefly :
 - a. What is type definition?
 - b. Explain use of Get function.
 - c. What is use of inheritance in OOP?
 - d. Explain Class template.
 - e. Explain Pure virtual function.
 - f. Explain Abstract class.
 - g. What is deference operator?
 - h. Differentiate between new and delete operator.
 - i. What is Enumeration Datatype?
 - j. Explain use of Goto statement.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.