

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

www.allsubjects4you.com
MCA (Sem. - 2nd)

OBJECT ORIENTED PROGRAMMING USING C++

SUBJECT CODE : MCA - 202

Paper ID : [B0107]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Attempt any one question from each Sections A, B, C and D.
- 2) Section - E is **Compulsory**.
- 3) Use of Non-programmable **Scientific Calculator** is allowed.

Section - A

(1 × 10 = 10)

- Q1)** Discuss in detail object oriented paradigm.
- Q2)** Compare various loops and also write a program to find whether the positive number entered by the user is prime or not.

Section - B

(1 × 10 = 10)

- Q3)** Explain various storage classes in detail with examples.
- Q4)** Discuss nesting of structures with the help of a suitable example.

Section - C

(1 × 10 = 10)

- Q5)** Write an interactive program for manipulating "Time" class. Support member functions for adding time members of two objects.
- Q6)** Write short notes on :-
(a) Inline functions (b) Types of inheritance.

Section - D

(1 × 10 = 10)

- Q7)** Explain the concept of operator overloading with regards to overloading of "<<" operator.

J-724[8129]

P.T.O.

Q8) Write short notes on :-

- (a) Random access file processing. (b) Virtual Functions.

Section - E

(10 × 2 = 20)

Q9)

- a) Differentiate between object and class.
- b) What is type conversion?
- c) What is the need of manipulators?
- d) Differentiate between structure and union.
- e) Can arrays be initialized at the point of their definition? If yes, explain its syntax with suitable examples?
- f) What is nesting of classes? How is it achieved?
- g) What are enumerations?
- h) What are the merits of friend functions?
- i) Briefly explain how a file can be opened in different ways.
- j) What is run time polymorphism?

