Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   **Total No. of Pages : 02**

Total No. of Questions : 09

BMCI (2014 & Onwards) (Sem.–2)
OBJECT ORIENTED PROGRAMMING WITH C++
Subject Code : BMCI-203
M.Code : 72465

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTION TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1) **Answer briefly :**

   a) What is data hiding?

   b) What is early and late binding?

   c) State the use of static functions.

   d) What is passing by value?

   e) Explain the use of unions in C++.

   f) Illustrate the use of inline functions.

   g) How can we declare a structure?

   h) Define Polymorphism.

   i) What are header files?

   j) Discuss pure virtual functions.

SECTION-B

2) What is object oriented programming? Discuss its advantage and disadvantage over structure programming.

3) What is a function? Explain how function overloading is implemented in C++.

4) Discuss Constructors. Explain its types with the help of examples.

5) Explain the concept of nesting of classes in detail.

6) What are the various visibility modes? Explain in detail.

SECTION-C

7) What is file handling? What are the various operations that can be performed on files? Discuss in detail.

8) What is inheritance? Discuss its types with examples.

9) Write short notes on :

    a) Nested structure

    b) Structure with pointer

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.