

Total No. of Questions : 09

Subject Code : BMCI-203

M.Code : 72465

Time : 3 Hrs.

Max. Marks : 60

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.**

1. Answer briefly :

- Define Encapsulation and Data hiding.
- What is the return type of `main ()`?
- List out the new operators introduced in C++.
- What are inline functions?
- How the objects are initialized dynamically?
- Define virtual base class.
- What is the need for streams?
- Define “**this**” pointer.
- How a structure is passed to function?
- What are static functions? Explain how friendship function is used in C++.List out the memory referencing operators.

SECTION-B

2. Discuss with examples, the implications of deriving a class from an existing class by the '**public**' and '**protected**' access specifiers.
3. Can we pass class objects as function arguments? Explain with the help of an example.
4. Write the difference between Early and Late Binding.
5. What are the various File Opening modes? How is (ios :: app) mode different from (ios :: ate mode)?
6. Discuss the features of object oriented programming in details.

SECTION-C

7. Define and give the syntax for the following :
 - a. Pure Virtual function.
 - b. Generic Function with example.
8. Explain the hybrid inheritance with example.
9. What is function overriding? Explain with suitable example.

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.