

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

M.Sc.(Computer Science) (2019 & Onwards) (Sem.-1)

OOPS USING C++ & JAVA

Subject Code : MSC-102

M.Code : 70888

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 have to attempt any ONE question from each SECTION.
2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

1. Discuss any five benefits of Object Oriented Programming.
2. a) Differentiate procedure oriented and object oriented approach.
b) What is meant by encapsulation? Explain.

SECTION-B

3. a) What is object oriented analysis? Explain by taking example.
b) Explain the working of Objects and Classes.
4. a) What is abstract class? Describe its usage in OOPS.
b) Explain the concept of Aggregation.

SECTION-C

5. a) Describe the concept of data hiding by taking an example.
b) Define constructor function. Discuss its use in OOP.
6. What is meant by overloading? What are its types? Write a code snippet in C++ demonstrating function overloading.

SECTION-D

7. What are different features of Java? Explain.
8. a) Describe Java Virtual Machine.
b) Elaborate the structure of Java Program.

SECTION-E

9. Write briefly :

- a) Comment on abstraction.
- b) What is dynamic binding?
- c) What is meant by in-line member function?
- d) “*Java is robust and secure*”. Comment on the statement.
- e) What is multithreading?
- f) Write the two differences between Java and C++.
- g) What is meant by import statement?
- h) Describe the usage of this-pointer.
- i) What are command line arguments?
- j) Discuss the use of virtual function.

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.