

F 6238



Reg. No.....

Name.....

**M.Sc. (BIOMEDICAL INSTRUMENTATION) DEGREE EXAMINATION
SEPTEMBER 2023**

Second Semester

OBJECT ORIENTED PROGRAMMING

(2016 Admission onwards—Regular/Supplementary/Mercy Chance)

Time : Three Hours

Maximum Marks : 100

Part A

*Answer any **five** questions.
Each question carries 10 marks.*

1. Explain the concept of inheritance. Why inheritance is introduced in OOP languages ?
2. Discuss on the motivation for OOP languages.
3. Explain with examples the operators used in C++.
4. Explain with suitable examples the uses of pointers.
5. Discuss on the dynamic memory management C++.
6. Write a C++ program to count the number of words in a string and the number of characters, except spaces.

(5 × 10 = 50)

Part B

*Answer any **ten** questions.
Each question carries 5 marks.*

1. Explain the concept of classes and objects in OOP.
2. Explain the concept and uses of abstraction in OOP.
3. Explain how data is safe if encapsulated ?
4. What are the benefits of modularity ?
5. Write a note on the data types used in C++.

Turn over





F 6238

6. Explain the methods of argument passing in functions.
7. Explain the concept of operator overloading.
8. Write a note on constructors and destructors.
9. Explain the concept and uses of virtual functions.
10. What is dynamic binding ?
11. What is Polymorphism ?
12. Compare the characteristics of C and C++ programming languages.

(10 × 5 = 50)

