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Reg. No......

Name.....

**M.Sc. (BIOMEDICAL INSTRUMENTATION) DEGREE EXAMINATION
AUGUST 2026**

Second Semester

BMI 203—OBJECT ORIENTED PROGRAMMING

(2025 Admission—Regular/2022–24 Admissions—Supplementary / 2021 Admission
– First Mercy Chance / 2020 Admission – Second Mercy Chance /
2019 Admission – Final Mercy Chance)

Time : Three Hours

Maximum Marks : 100

Section A

*Answer any **five** questions.*

Each question carries 10 marks.

1. Discuss on the motivation of oriented programming. What are its advantages ?
2. Define exception handling. Explain the use of try, catch and throw for exception handling in C++.
3. What is operator overloading ? List the operators that cannot be overloaded and justify why they cannot be overloaded.
4. Explain the use of pointers with an example program.
5. Write a program to implement in-line function.
6. Compare the characteristics of C and C++ languages.

(5 × 10 = 50)

Section B

*Answer any **ten** questions.*

Each question carries 5 marks.

1. Define function overloading. Explain with examples.
2. Define the following terms with examples (a) Object (b) Class.
3. What is meant by garbage collection ? Explain with example.
4. Classify operators used in C++. Give examples for each.





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5. Explain the role of constructors and destructors in C++.
6. Discuss on the dynamic initialization of variables in C++.
7. Explain with examples the role of virtual functions in C++.
8. Explain multiple and multilevel inheritances.
9. Write a note on dynamic binding.
10. Explain with example the order of execution of constructors and destructors.
11. What are bit fields ? Discuss their role in formatting.
12. Write a C++ program to find the sum and average of 50 numbers.

(10 × 5 = 50)

