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Roll No.

32286

B. Sc. EXAMINATION, 2025

(Fourth Semester)

(Re-appear Only)

COMPUTER SCIENCE

Paper-I

Object Oriented Programming with C++

Time : 3 Hours]

[Maximum Marks : 40

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. (a) What is Array ?
- (b) What do you mean by object ?
- (c) What do you mean by Encapsulation ?
- (d) Discuss the use of string in C++. **4×2=8**

Unit I

2. Explain different characteristics and benefits of object oriented programming in detail. **8**
3. Explain the significance of scope resolution operator by writing the Program. **8**

Unit II

4. Explain constructor and its types, uses with examples. **8**
5. Explain the following : **8**
 - (a) Unformatted I/O operations
 - (b) Constructor overloading.

Unit III

6. Explain the following : **8**
 - (a) Friend class
 - (b) String manipulators in C++.
7. How new and delete operator works for memory management in C++ ? Explain with the help of suitable program. **8**

Unit IV

8. Explain function overloading. Write the program for unary operator overloading. **8**
9. Explain the following : **8**
 - (a) Operators in C++
 - (b) Merits of Static Polymorphism.

