4294

B.C.A. (II Sem.) Examination, 2024

Paper: I

Object Oriented Programming Using C++

Time: Three Hours] [Maximum Marks: 75

Note: Attempt any five questions. All questions carry equal marks.

- 1. How does the concept of classes & objects play vital role for object oriented programming? Explain with suitable example.
- 2. What is polymorphism? How does compiletime binding and runtime binding work?

 Give suitable example.

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P.T.O.

	what is Operator overloading? Explain	the
	concept of dynamic memory allocation	in in
	detail with example.	15

- Define two classes woo, moo & koo. Each
 class must have data member and member
 function. Explain the concept of inheritance
 via these classes.
- 5. Explain the function overriding concept in detail? What are its benefits?
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- 6. What is generic class? Write a class code in C++ for implementing traffic signal system.(Class only)
- 7. Write a C++ code to handle employee data in an educational institute. Write all classes, data members and methods required.

What are class hierarchy? Explain the public,
 private and protected class inheritance with
 suitable example.

10. Write short note on any two of the following:

- (a) New and delete operators.
- (b) Garbage Collection.
- (c) Call by value and call by reference.