

1911000303020081
EXAMINATION OCTOBER 2024
BACHELOR OF SCIENCE (COMPUTER SCIENCE)
(NON-NEP) (THIRD SEMESTER)
COMPUTER SCIENCE PAPER - III
(301- OBJECT ORIENTED PROGRAMMING: C++)

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF SCIENCE (COMPUTER SCIENCE)(NON-NEP) (THIRD SEMESTER)**
 - b. Name of the Subject : **COMPUTER SCIENCE PAPER - III (301- OBJECT ORIENTED PROGRAMMING: C++)**
 - c. Subject Code No : **1911000303020081**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the following questions (Any Seven).

14

- a) What is object? State the purpose of new keyword.
- b) What is class? How to create it in C++?
- c) What is inline function? Give example of inline function.
- d) Explain file modes with syntax.
- e) Explain copy constructor.
- f) Differentiate base class and child class.
- g) Define local class with example.
- h) Differentiate multiple vs multilevel inheritance.

Q.2 Answer the following questions.

- a) What is OOP? Explain its features. **6**
 - b) Explain constructor in detail with its implementation. **6**
- OR**
- a) Explain access specifiers with example. **6**
 - b) What is friend function & friend class? Explain in details. **6**

Q.3 Answer the following questions.

- a) Write a note on inheritance and its types. **6**
- b) What is virtual function? State its purpose with example. **6**

OR

- a) What is polymorphism? Explain its types with purposes. **6**
- b) Explain array of objects with example. **6**

Q.4 Answer the following questions. (Any Three) **12**

- a) Write C++ program to read & write text file.
- b) Write a note on operator overriding with an example.
- c) Write a program to overload unary minus (-) operator.
- d) Differentiate early binding and late binding.
