

Term Evaluation (Odd) Semester Examination September 2025

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Name of the Course: B. Tech

Semester: III

Name of the Paper: Object Oriented Programming with C++

Time: 1.5 hour

Note:

Maximum Marks: 50 Answer all the questions by choosing any one of the sub-questions (i)

(ii) Each question carries 10 marks.

Q1.

a. Explain Different features of Object-oriented paradigm using proper C++ code (10 Marks)

b. Implement a C++ program to input a paragraph (multiple lines) and display:

CO1

- total number of words, and
- total number of sentences.

-02.

Explain the role of this pointer in C++. Implement a C++ program to return an object using this pointer only.

b. Implement a C++ program to input an array of n integers and: Find the maximum element

CO₁

- Find the minimum element
- Display the difference between maximum and minimum element.

Q3.

a. With respect to C++ justify the statement "Friendship is granted not taken" in your own words with b. Implement a C++ program by creating a class BankAccount with CO₂

CO1, CO2

Private Data Members:

int accNo

string name

float balance

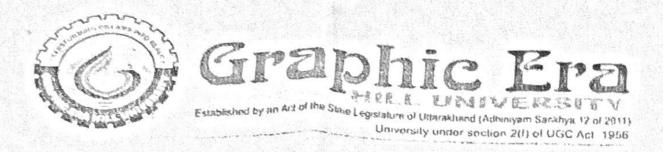
Private Member Function:

float interest() → returns 5% interest on current balance. **Public Member Functions:**

Constructor to initialize account details.

display(): shows account details with balance after adding interest. In main(), create an array of 5 accounts and display their final balances.

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CO₂

Q4.
a. Create a class MyString with:

(10 Marks)

- Private Data Member:
 - char str[50]
- Public Member Functions:
 - · Constructor to initialize string.
 - · display():prints the string.
 - Overload operators:
 - + : to concatenate two strings.
 - = : to compare two strings.

In main(), create two strings and demonstrate concatenation and comparison.

OR

b. Implement a C++ program to Overload binary - operator using the concept of operator overloading CO2

Q5.
a. With the help of C++ Program overload post increment operator -- using friend function only CO2

OR

b. Classify different types of constructors in C++. Implement a proper c++ program to demonstrate the working of copy constructor. CO2