

Kathmandu University

COMP 116

Internal - II, August 2024

FM: 15

Time: 1 hour

SET- B

PM: 6

Answer all the questions:

1. Create a class `Time` with integer members for hours, minutes, and seconds. Implement the following:
 - a. Constructors:
 - i. A default constructor that initialises time to 0.
 - ii. A parameterized constructor for initialising fixed values.
 - b. Member Function
 - i. `displayTime()`: Display time in the format `hr:min:sec`.
 - ii. `AddTime()`: Add two `Time` objects and update the current object.

Create two `Time` objects, add them, and display the result.

[4]

2. Differentiate between "function overloading" and "function overriding". [3]
3. Define Inheritance. When does the diamond problem occur? How is it handled? [1+2+1]
4. What are different types of constructors? Write a program implementing all of them. [2+2]