

The Islamia University of Bahawalpur

Department of Computer Science and Information Technology

Examination: **Mid Term**
Maximum Marks: **30**
Time: _____
Program: **Morning**

Subject: **OOP**
Time Allowed: **70 Minutes**
Class: **MCS 2nd**
Course Instructor: **Ali Haider**

Course Code: **CS-21204**
Date: _____
Session: _____

Note: Attempt all questions.

Question 1: Give Short Answer to the following questions

Marks: 2×5=10

- i. Shortly describe different types of objects.
- ii. What do you know about access specifiers?
- iii. What is the purpose of constructor and destructor?
- iv. Shortly describe data members and member functions memory representation?
- v. Which are the non-overloadable operators?

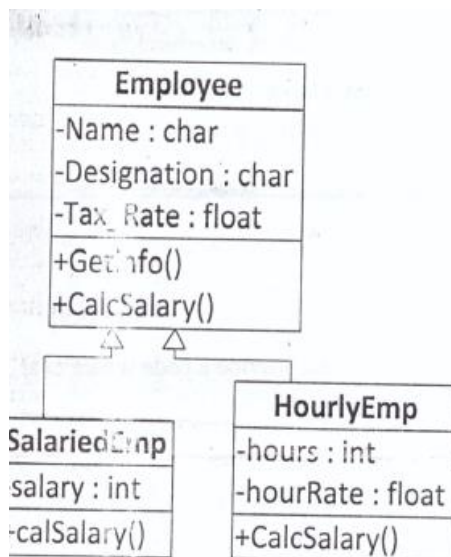
Question 2: Write a program for following.

Marks: 10

- a) Relational Operator > and < overloading
- b) Unary operator ++ and -- overloading.

Question 3: Develop a program using following class diagram.

Marks: 10



- SalariedEmp
Tax= salary*taxRate;
Calc salary= Salary-tax
- HourlyEmployee
grossPay= hours*hourlyRate
tax= grossPay*taxRate
clacSalary=grosspay-tax;