Q1.	Which scenario best exemplifies a one-to-one	association in a C++ program?

- (A) A 'Student' and a 'Library Card'
 - B) A 'Teacher' and a 'Classroom'
 - C) A 'Doctor' and 'Patient'
 - D) A 'Bus' and 'Route'

Q2 In a school management system, which class relationship represents a one-to-many association?

- A) A 'School' and 'Teacher'
- B) A 'Book' and 'Library'
- CB Both A and B
 - D) Neither A nor B

Q3 Multiple 'Students' enrolled in a single 'Course' exhibits which relationship?

- (A) I-1
 - B) I N
 - C) M-N
- D) None of the above

Q4 A application has a 'Customer' class and an 'Order' class. If every Order can only belong to one Customer, but a Customer can place many orders, this relationship is:

- A) One-to-one
- B) One-to-many
- C) Many-to-one
- (D)) Both B & C

Q5 In a university enrollment system, which scenario illustrates a many-to-many association?

- (A) A Professor and Courses.
- B) A Department and Labs.
- C) A Library and Books.
- (D) None of above





R	oll	number:	<u> </u>
1	OH	number.	

Q6 In a C++ program	modeling	an	airport,	which	of I	the following	is	an	example	of
aggregation?										

- (A) Airplane and Engine the airplane contains engines, but engines can be swapped out or used in different airplanes.
- (B) Pilot and Flight a flight cannot exist without a pilot.
- C) Ticket and Passenger a ticket is issued to a specific passenger.
- D) Airport and Runway an airport controls the existence of runways.
- Q7 A Team consists of Players, and if the team is disbanded, the players still exist and can join other teams. This scenario is example of:
 - A) Inheritance C) Aggregation

- B) Composition
- D) Encapsulation

Q8 What is the primary reason to overload operators in C++?

- A) To increase the execution speed of programs.
- B) To provide syntactic convenience and readability when using user-defined types.
- To change the functionality of built-in operators for primitive types.
- D) To reduce memory usage by customizing operator behavior.
- Q9 To overload the + operator for a class Vector, which signature is correct?
- A) Vector operator+(const Vector&);
- B) friend Vector operator+(const Vector&, const Vector&);
- C) static Vector operator+(const Vector&, const Vector&);
- (D) Both B & C
- Q10 Aggregation is a special form of association that illustrates a/an _____ relationship between the whole and its parts.
- A) is-a
- B)has-a
- C) uses-a
- D) none



