Started on	Friday, 4 April 2025, 4:06 PM
State	Finished
Completed on	Friday, 4 April 2025, 4:12 PM
Time taken	5 mins 55 secs
Marks	5.00/10.00
Grade	**50.00** out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Which ACID property ensures that a transaction is executed completely or not at all?

- a. Consistency
- b. Isolation
- c. Durability
- d. Atomicity ✔

Your answer is correct.

Question 2

Correct

Mark 1.00 out of 1.00

Which ACID property ensures that once a transaction is committed, it remains permanent?

- a. Durability ✔
- b. Atomicity
- c. Isolation
- d. Consistency

Your answer is correct.

Question 3

Incorrect

Mark 0.00 out of 1.00

Which type of locking protocol allows multiple transactions to access a resource but prevents modifications while a shared lock is held?

- a. Two-Phase Locking (2PL)
- b. Deadlock Prevention Lock
- c. Shared Lock (S)
- d. Exclusive Lock (X) ✖

Your answer is incorrect.

Question 4

Incorrect

Mark 0.00 out of 1.00

Which locking protocol ensures that once a transaction releases a lock, it cannot obtain any new locks?

a. Optimistic Concurrency Control

b. Two-Phase Locking (2PL)

c. Strict Two-Phase Locking (Strict 2PL) ✖

d. Timestamp Ordering

Your answer is incorrect.

Question 5

Correct

Mark 1.00 out of 1.00

Which of the following is responsible for ensuring data consistency and integrity in a DBMS?

a. Transaction Manager ✔

b. Data Dictionary

c. Buffer Manager

d. Query Processor

Your answer is correct.

Question 6

Incorrect

Mark 0.00 out of 1.00

What will be the output of the following Java code?

```
class A {
    void display() {
        System.out.println("Class A");
    }
}

class B extends A {
    void display() {
        System.out.println("Class B");
    }
}

public class Main {
    public static void main(String[] args) {
        A obj = new B();
        obj.display();
    }
}
```

→ object is B

a. Runtime Error

b. Class A ✖

c. Compilation Error

d. Class B ✓

Your answer is incorrect.

Question 7

Incorrect

Mark 0.00 out of 1.00

What will be the output of this Java code?

```
class Parent {
    static void show() {
        System.out.println("Parent");
    }
}

class Child extends Parent {
    static void show() {
        System.out.println("Child");
    }
}

public class Test {
    public static void main(String[] args) {
        Parent obj = new Child();
        obj.show();
    }
}
```

a. Parent

b. Compilation Error

c. Child

d. Runtime Error ✖

method static → this is execute static first

Your answer is incorrect.

Question 8

Correct

Mark 1.00 out of 1.00

What will be the output of this Java program?

```
class Test {
    Test() {
        System.out.println("Constructor Called");
    }
}

public class Main {
    public static void main(String[] args) {
        Test obj1 = new Test();
        Test obj2 = new Test();
    }
}
```

a. Constructor Called (printed twice) ✔

b. Constructor Called

c. No Output

d. Compilation Error

Your answer is correct.

Question 9

Incorrect

Mark 0.00 out of 1.00

What will happen when executing this Java code?

```
abstract class Animal {
    abstract void makeSound();
}

class Dog extends Animal {}

public class Main {
    public static void main(String[] args) {
        Animal a = new Dog();
        a.makeSound();
    }
}
```

a. Compilation Error

b. No Output

c. Code runs successfully ✖

d. Runtime Error

Your answer is incorrect.

Question 10

Correct

Mark 1.00 out of 1.00

What will be the output of this Java code?

```
interface A {
    default void show() {
        System.out.println("Interface A");
    }
}

interface B {
    default void show() {
        System.out.println("Interface B");
    }
}

class C implements A, B {
    public void show() {
        A.super.show();
    }
}

public class Main {
    public static void main(String[] args) {
        C obj = new C();
        obj.show();
    }
}
```

a. Compilation Error

b. Interface B

c. Interface A ✔

Your answer is correct.