

Roll No.

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Candidates must write the Code on the title page of the answer-book.

- Please check that this question paper contains **4** printed pages.
- Code number given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
- Please check that this question paper contains **4** questions.
- **Please write down the Serial Number of the question before attempting it.**
- 15 minute time has been allotted to read this question paper. The question paper will be distributed at 10.15 a.m. From 10.15 a.m. to 10.30 a.m., the students will read the question paper only and will not write any answer on the answer-book during this period.

DATABASE MANAGEMENT APPLICATIONS

Time allowed : 2½ hours

Maximum marks : 50

SECTION – A

1. Multiple Choice Questions : (Choose the most appropriate option) **1 × 6 = 6**

(i) For each attribute of a relation, there is a set of permitted values, called the _____ of that attribute.

- | | |
|------------|--------------|
| (a) Domain | (b) Relation |
| (c) Set | (d) Schema |

(ii) If $a = 20$, $b = 10$, what will be the output of $a \% b$?

- | | |
|-------|---------|
| (a) 2 | (b) 0 |
| (c) 1 | (d) 200 |

(iii) Which operator performs pattern matching ?

- | | |
|---------------------|----------------------|
| (a) LIKE operator | (b) BETWEEN operator |
| (c) EXISTS operator | (d) SEARCH operator |

(iv) Which of the following is **not** a DDL statement ?

- | | |
|------------|------------|
| (a) CREATE | (b) SELECT |
| (c) ALTER | (d) DROP |

- (v) What is the term used to describe the information, system and application that support and drive business processes, most often using web technologies ?
- (a) e-education (b) e-governance
(c) e-commerce (d) e-business
- (vi) OLX is an example of _____ category of E-commerce website.
- (a) C2C (b) B2C
(c) B2B (d) C2B

SECTION – B

2. Very Short Answer Questions : **2 × 8 = 16**

- (i) State any two characteristics of Database Management System.
- (ii) Consider the following Code. What will be the output of following program and why ?

```
public class SwitchDemo {  
    public static void main(String[] args)  
    {  
        int day = 6;  
        String dayname="";  
        switch (day)  
        {  
            case 1: dayname = "Monday";  
                break;  
            case 2: dayname = "Tuesday";  
                break;  
            case 3: dayname = "Wednesday";  
                break;  
            case 4: dayname = "Thursday";  
                break;  
            case 5: dayname = "Friday";  
                break;  
            case 6: dayname = "Saturday";  
            case 7: dayname = "Sunday";  
                break;  
            default: dayname = "Invalid day";  
        }  
        System.out.println(dayname);  
    }  
}
```

- (iii) What is datatype ? Name the datatype used for storing fractional value in any variable in JAVA.
- (iv) Ms. Shalu has entered “Mridul” instead of “Mridula in the ‘name’ field of the table ‘student’. She wants to correct the name. Help her write the correct SQL command.
- (v) How is work Integrated learning beneficial for students ?
- (vi) Java is a case Sensitive language. Justify.
- (vii) What is eBay ?
- (viii) Define Entity and its attribute.

SECTION – C

3. Short Answer Questions : **3 × 6 = 18**

- (i) Expand SQL. Explain the two categories of SQL statements giving one example of each.
- (ii) What is a Project ? Write any two characteristics of it.
- (iii) What precautions should be kept in mind while doing any online transaction ?
(State any three points)

- (iv) (a) Find the output of the following Code fragment :

```
public class WhileDemo
{
    public static void main (String[ ] args)
    {
        int number = 1;
        while (number <= 5){
            system.out.print ("Square of" + number);
            system.out.println (" = " + number*number);
            ++number;
        }
    }
}
```

- (b) What is use of ++ operator in the above code ?

- (v) State any two advantages of Online Reservation. Name a popular website for booking train tickets.
- (vi) Explain how Database Applications can be used in Government Sector.

SECTION – D

4. Long Answer Questions : **5 × 2 = 10**

- (i) What are Online tutorials ? Explain how the use of different online tutorials and tests benefit the students.
- (ii) Explain the concept of OOPs in relation to JAVA.

OR

What are Looping Statements ? Write the program to print the first 10 odd numbers.
