

Group A

(7×1=7)

- What is a candidate key in the context of normalization?
 - A key that uniquely identifies a record in a table.
 - A key that is chosen arbitrarily by the database designer.
 - A key that is automatically generated by the database system.
 - A key that is derived from other attributes in the table.
- A table on the many sides of a one to many or many to many relationships must:
 - Be in 2NF
 - Be in 3NF
 - Have a single attribute key
 - Have a composite key

- model replaces Hierarchical tree with a graph.
 - Network Model
 - Relational Database Model
 - Distributed Database
 - None

- What is the output of the following code?

```
<script>
```

```
document.write(typeof typeof 42);
```

```
</script>
```

- Number
- Object
- String
- error

- What does the innerHTML property do in JavaScript?

- Changes the content of an element including HTML tags
- Changes the text content of an element
- Changes the ID of an element
- Changes the CSS style of an element

Handwritten notes:
 $1(a) > b > c$
 $f(b) > 1$

Handwritten code:
 $var res = 0$
 $3 \text{ else } res = 2 * b$
 $3 \text{ else } res = 2 * b$

- What is the output of the following code?

```
<p id="now"></p>
```

```
<script>
```

```
var x='it's raining'
```

```
document.getElementById('now').innerHTML=x
```

```
</script>
```

- error
- it's raining
- it
- none of the above

- What is the output of the following code?

```
<script>
```

```
let num1 = 32;
```

```
let num2 = '32';
```

```
let result1 = num1 !== num2; num 32
```

```
let result2 = num1 != num2;
```

```
console.log(result1, result2);
```

```
</script>
```

- true false
- true true
- false true
- false false

Group B

(5×5=25)

- Explain the functions of DBMS. Explain alternate key with the help of a table. (3+2)

- Differentiate between RDBMS and DBMS. (5)

- What is functional dependency? Explain 2NF with example. (1+4)

- Define Object Literal. Write a JS program to create an object with the property "name, roll and email" and print their respective values in proper format. (2+3)

- Write a JS program to find the greatest among three numbers and print it. Also print the square of smallest number. (3+2)

Group C

(5+3=8)

- Explain Centralized Database System and Distributed Database System with their advantages and disadvantages. Explain the role of Database Administrator.

Handwritten note: All the best