

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

- 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;
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.

All the best