

PART - I

Answer any 5 questions from 1 to 6. Each correct answer carries 1 score. (5 × 1 = 5)

1. Length of a string can be found using _____ function.
2. The port number of SMTP is _____.
3. Name the keyword used to declare variable in JavaScript.
4. _____ is the custom of building a website suitable to work on every device and every screen size.
5. In relational model, the number of attributes is termed as _____.
(a) Cardinality (b) Schema
(c) Degree (d) Tuple
6. The rules enforced on data that are entered into the column of a table are called _____.

PART – II

Answer any 9 questions from 7 to 18. Each correct answer carries 2 scores. ($9 \times 2 = 18$)

7. Which are the different types of literals in C++ ?
8. Differentiate between Switch and else...if statements.
9. Explain any two jump statements in C++.
10. Define an array. Write an array declaration to store the marks of 65 students in your class.
11. Name the header files needed for the functions abs() and isdigit().
12. Write the HTML tags required for creating a table.
13. Write JavaScript functions to perform :
 - (a) To check whether the variable N contains a number.
 - (b) To display the third character in the string "Computer".

14. Expand CMS. Give an example.
15. List out different types of users of DBMS.
16. First table containing 4 rows and 3 columns, second table contains 5 rows and 2 columns, then the Cartesian product table contains _____ rows and _____ columns.
17. Write the syntax of the command used to create a view.
18. Consider the following table STUDENT :

Roll_No	Adm_No	Name	Course	Score
11	2007	Prasanth	Hum	90
12	2008	Abdulla	Sci	45
13	2009	Jins	Comm	60

Can you suggest an attribute that can be selected as primary key ? Justify your answer.

PART – III

Answer any 9 questions from 19 to 29. Each correct answer carries 3 scores. (9 × 3 = 27)

19. What is the advantage of using gets() function in C++ ? Which is the necessary header file to use it ?
20. How a local variable differs from a global variable ?
21. Compare client side scripting and server side scripting.
22. Write any three text formatting tags in HTML with their use.
23. Write HTML code to divide the browser window into two equal sections horizontally and load 'a.html' into the first section and 'b.html' into the second.
24. Describe any three values of Type attribute of the <INPUT> Tag in HTML with their use.
25. Which are the basic data types in JavaScript ? Give one example each.

26. (a) Predict the value of z in the following JavaScript code :

```
var x, y;
x = "283";
y = "6";
z = x + y;
```

(2)
- (b) What are the two uses of '+' operator in JavaScript ? (1)
27. Which are the different types of web hosting methods ?
28. Explain three levels of data abstraction in DBMS.
29. Explain the three components of SQL with examples.

PART - IV

Answer any 2 questions from 30 to 32. Each correct answer carries 5 scores. (2 × 5 = 10)

30. (a) Write the HTML code to display the following using list tag :
 (i) Biology Science
 (ii) Commerce
 (iii) Humanities (3)
- (b) What is a definition list ? Which are the tags used to create definition list ? (2)
31. What is Relational Algebra ? Explain any three relational algebra operations.
32. Consider the table employee given below :

EMPID	NAME	DESIG	BASIC
1001	ARUN	CLERK	25000
1002	RAJU	SALESMAN	15000
1003	FATHIMA	MANAGER	40000
1004	JOHN	MANAGER	40000
1005	AJITH	SALESMAN	15000

Write SQL statements for the following :

- (a) Display the details of all employees.
- (b) Display the details of employees in ascending order of their basic pay.
- (c) Display name and designation of employees whose name starts with the letter 'A'.
- (d) Increase the basic pay to clerk by ₹ 3,000.
- (e) Display all employees except manager and clerk.