÷	Answer any 5 questions from 1	to 6. Each carries 1 score. $(5 \times 1 = 5)$	5)
۱.	Queue organizes data based on	principle.	
	(a) FIFO	(b) LIFO	
	(c) FILO	(d) LILO	
2.	Which hyperlink protocol is used	to create an e-mail hyperlink ?	
	(a) http	(b) mailto:	
	(c) href	(d) pop	
3.	In JavaScript, which of the foll type ?	owing keyword is used to convert data into number	

(a) Int	(b)	Integer
---------	-----	---------

(c) Num() (d) Number()

4. In PHP, _____ is a collection of key and value pairs.

 The scientific study associated with the design, fabrication, theory and application of robots is called _____.

6. A virtual world where communication takes place only over the internet is called _____.

Answer any 9 questions from 7 to 18. Each carries 2 scores.

 $(9 \times 2 = 18)$

- 7. What is memory leak?
- 8. Compare empty tag and container tag.

2

- 9. (a) Expand CSS.
 - (b) Which are the different ways to implement CSS in a web page?
- 10. Write short note on lists in HTML.
- 11. Complete the table given below :

Data type in JavaScript

12. Rewrite the given JavaScript code segment with suitable code elements to display even numbers upto 10 on a web page.

<SCRIPT="JavaScript">
 var N;
 N=2;
 while(.....)
 {
 document. write(N);
 N=....+....;
 }

- 13. Write short note on various types of web hosting.
- 14. What is responsive web design ?

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(1) (1)

- 15. Write a brief description about the users of database.
- 16. Which are the aggregate functions in SQL ?
- 17. Compare GET and POST methods in PHP.
- 18. What is the difference between echo and print statements in PHP ?

Answer any 9 questions from 19 to 29. Each carries 3 scores. $(9 \times 3 = 27)$

- 19. (a) What is structure in C++?
 - (b) Define a structure 'FeeCard' to store the details Admission number, Name and Amount. (2)

(1)

20. Consider the array Num[5] of int type, Ptr an integer pointer then predict the output of the following C++ statements :

| | | | Num |
|-----|------------------------------|------|-----|
| Ptr | =Num; | 1000 | 37 |
| (a) | cout<<(Num+1); | | 42 |
| (b) | cout<<*(Num+1); | | 57 |
| (c) | for(int i=0; i<5; i++) | | 62 |
| | cout << * (Ptr + i) << "\t"; | | 67 |
| | | | |

- 21. (a) Define the OOP concept Inheritance.
 (1)

 (b) Write a brief note on different types of inheritance.
 (2)
- 22. Write the algorithm to perform PUSH operation in a stack.

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- (a) Write short note on linked list.
 - (b) List the operations that can be performed on linked list.
- 24. Compare static and dynamic web pages.
- 25. List any three attributes of <BODY> Tag with their use.
- List the advantages of DBMS.
- 27. Write the output of the following JavaScript statements based on the given code segment :

(1)

(2)

var x, A,B,C;

x="All the Best";

A=x.toUpperCase();

B= x.length;

- (a) alert(A);
- (b) alert(B);
- (c) alert(isNaN(x));
- 28. Answer the following questions based on the given table STUDENT as per instructions :

| Reg_No | Name | Batch | Result | Marks |
|--------|--------|----------|--------|-------|
| 1101 | Sachin | Science | Pass | 480 |
| 1107 | Rithu | Science | Fail | 200 |
| 1234 | Joseph | Commerce | Pass | 350 |

- (a) Write the output of the operation σ Result="Pass" (STUDENT)
- (b) Write the output of the operation σ Result="Pass" ∧ Batch="Science" (STUDENT)
- (c) Write relational operation to get Reg_No, Result of all students from STUDENT
- 29. Explain the cloud service models.

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| | Answer any 2 questions from 30 to 32. Each carries 5 scores. | | $(2\times 5=10)$ | |
|-----|--|--|------------------|--|
| 30. | (a) | List the tags used to create table in HTML with their use. | (2) | |
| | (b) | Write HTML code to display the following table in a web page : | (3) | |

| DETAILS OF STUDENTS | | | |
|---------------------|--------|-----------------|--|
| Chest No | Name | No. of attempts | |
| 123 | Rithu | 3 | |
| 125 | Ananya | 2 | |

31. Consider the given SQL query,

CREATE TABLE Book

(Book_ID INT PRIMARY KEY,

Book_Name VARCHAR(25),

Publisher VARCHAR(25),

Price INT,

NOT NULL(Book_Name, Publisher));

Answer the following :

| (a) | Write the table constraint used in the query. | (1) |
|-----|--|-----|
| (b) | Write SQL query to display whole table. | (1) |
| (c) | Write SQL query to display the list of books with price below 200. | (1) |
| (d) | Write SQL query to display Book name in the ascending order of price. | (1) |
| (e) | Rewrite the above query with proper changes so that the Book_ID to be uni
and price decimal type. | que |
| | i i i i i i i i i i i i i i i i i i i | (1) |
| (a) | Define e-Learning. | (1) |
| (b) | List any 4 e-Learning tools. | (2) |
| (c) | Explain any 4 cyber-crime against individuals. | (2) |
| | | |

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32.

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