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Subject Code : 34

B23-CS (E) (Th)

3021

951371



2023

COMPUTER SCIENCE (E)

(Theory)

Full Marks : 70

Pass Marks : 21

Time : 3 hours

The figures in the margin indicate full marks for the questions.



1. Choose the correct answer :

1 × 4 = 4

(a) The _____ command is used to determine your computer's networking information, such as the IP address, address of its default gateway, etc.

☒ (i) ping

(ii) host name

☒ (iii) ipconfig

(iv) None of the above

(b) Which of the following properties are used with the <td> tag ?

☒ (i) text-align

(ii) vertical-align

(iii) padding

(iv) All of the above

(c) The _____ command is used to modify the table structure.

(i) ALTER

☒ (ii) UPDATE

(iii) ALTER TABLE

☒ (iv) MODIFY

(d) Which of the following is an address operator ?

(i) *

(ii) &

~~(iii) %~~

(iv) #



2. Fill in the blanks :

1 × 4 = 4

~~(a)~~ In a computer network, _____ can be shared among the connected computers.

~~(b)~~ _____ are used to write notes about an HTML document.

~~(c)~~ A _____ is a special variable that stores the address of another variable.

~~(d)~~ _____ is used to fetch the data from the database.



3. State whether the following statements are true or false :

1 × 4 = 4

~~(a)~~ To delete a column in an existing Table, we can use the DELETE command. ✓

~~(b)~~ The statement inside the while loop executes atleast once even if the condition is false. ✗

~~(c)~~ An object(s) is/are user defined blueprint or prototype from which class is created. ✗

~~(d)~~ A router is a network device that creates a wireless network.

4. Answer the following questions in **one** word :

1 × 8 = 8

✓ (a) It is a name of computer or any connected device in a computer network.

What it is called ?

✓ (b) It is a set of well established rules that determine how two computers communicate or transfer data between them. What it is called ?

✓ (c) It is a simple design language intended to simplify the process of making web pages presentable. What it is called ?

✓ (d) It is used when the items in the list are not required to be in specific order. What it is called ?

✓ (e) These are some rules that helps ensure the validity of data while entering data into a table. What it is called ?

✓ (f) It is a tag used to create text box, radio button and check box on the webpage. What is the tag here called ?

✓ (g) These commands are used to grant and take back authority from any database user. What is the language here called ?

✓ (h) It is defined as wrapping up of data and information under a single unit. What it is called ?

5. Answer the following questions :

2 × 12 = 24

(a) What do you mean by IP address ? Write short notes on IP address.

(b) What are the benefits of MAC address ?



(c) What is the use of HTML formatting ?

(d) What is the use of type attribute with an unordered list ?

(e) Explain the importance of tables in HTML.

(f) Is it possible to add NULL and NOT NULL constraints to a table already loaded with data ?

(g) What are the characteristics by which one can determine the data type of MySQL ?

(h) What do you mean by array ? How to create/declare an array, give example ?

(i) What do you mean by library function ? Is sum() a library function ? Justify.

(j) Why is dynamic memory allocation an efficient memory management technique ?



(k) Why pointers are useful in C ?

(l) Explain two features of OOP.

6. Answer the following questions :

3 × 3 = 9

- (a) What is group function ? Explain with an example.
- (b) Write a C program to find the largest number among a series of numbers using an array.
- (c) Can we have two functions with the same name but with different number of parameters in a single program ? Write a C program to justify your answer.

7. Answer the following questions :

4 × 3 = 12

- (a) What is target attribute ? What are the values of target attribute ?
- (b) Draw a flow chart for finding summation of integers using loop.
- (c) What is nested loop ? Why do we use nested loops in our program ?

8. (a) Create a table ACTIVITY with ACT_Code as the primary key. Decide your own data types. Inset records as shown in the Table below and write the queries for the following :

ACT Code	ACT Name	Place	Schedule Date	Participants
A001	High jump	Stadium 1	2022-12-01	12
A002	Long jump	Stadium 1	2022-12-01	15
A003	Shotput	Stadium 2	2022-12-02	10
A004	Discuss throw	Stadium 2	2022-12-02	14
A005	Football	Stadium 3	2022-12-03	20

(b) Write a query for the following : (Any three)

1 + 1 + 1 = 3

(i) Write a query to display the details of activities in ascending order of schedule date.

(ii) Display the various places given in the table.



(iii) Display the details of ACT_Code A001 and A002.

(iv) Display the activity name (ACT_Name) that has participants in the range 10 to 15.

