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Subject Code : 34

B23-CS (E) (Th)

3021

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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 :

- (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.
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