

Subject Code: 34

Pre-Board Examination 2023

Computer Science (E)

(Theory)

Full Marks: 70**Pass Marks: 21**

Time: 3 hours

The figure in the margin indicates full marks for the questions.

1. Answer the following questions: $1 \times 2 = 2$

(a) This Clause is used to search the data within the range (specified lower and upper limit). What is the name of the clause?

(b) This operator displays only those records that do not satisfy the specified condition. What is the name of the operator? *not operation*

2. Fill in the Blanks: $1 \times 5 = 5$

(a) The ping command is used to _____

(b) The _____ element include both on and off tags.



(c) A list inside another list is called as a nested list.

(d) The number of column denotes the Degree of the table.

(e) A MySQL statement is terminated by a ;

3. Choose the correct option:

1 × 4 = 4

(a) IP address can be automatically assigned if the network is connected with:

i. Access Point ii. Mail server

iii. Web Server iv. DHCP Server

(b) Which of the following is used to define the style for a single HTML page?

i. Inline CSS ii. Internal CSS

iii. External CSS iv. None of these

(c) What is the output of C Program?

```
int main()
{
    int a=25;
    while(a <= 27)
    {
```



```
printf("%d ", a);
```

```
a++;
```

```
}
```

```
return 0;
```

```
}
```

i. 25 25 25

ii. ~~25 26 27~~

iii. 27 27 27

iv. Compiler error

(d) Which loop is faster in C Language, for, while or Do While?

i) for

ii) while

iii) do while

iv) All work at same speed

4. Answer the following questions:

$1 \times 9 = 9$

(a) What is the basic difference between POP and SMTP?

(b) What is the use of TCP?

(c) What is Cascading Style Sheet?

(d) Define Padding property.

Space between the element^{content} and element^{border}

(e) Write the syntax for using list-style-type property.



(b) What is the working principal of TCP and IP?

(c) Write any two features of HTML.

(d) Write the uses of unordered list and description list in HTML?

(e) What is a constraint? Name any two constraints.

(f) What are the rules for naming a table in MySQL?

(g) List the Relational Operators used in MySQL.

(h) What is the meaning of COUNT () and COUNT(*)?

(i) Write a C program to display the elements of the odd positions.

(j) Define data hiding and data binding.

(k) Define object and class.

(l) What is the output of the following code segment:

```
int *ptr, x=9;
ptr=&x;
int y= ++(*ptr);
printf("\n%d", y);
```



Lesson

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~~(f)~~ How are images added in an HTML document?

~~(g)~~ What is the need of global variable? ^{}

~~(h)~~ What is data abstraction?

~~(i)~~ What will be the output of the following code segment:

```
#include <stdio.h>
```

```
int main() {
```

```
    int weeks = 1, days_in_week = 7;
```

```
    for (int i = 1; i <= weeks; i++) {
```

```
        printf("Week: %d\n", i);
```

```
        for (int j = 1; j <= days_in_week; j++) {
```

```
Week: 1    printf("Day: %d\n", j);
```

```
Day: 1    }
```

```
Day: 2    }
```

```
        return 0;
```

```
    }
```

~~5.~~ Answer the following questions:

2 × 12 = 24

~~(a)~~ What is the use of ARP protocol and ping command?



Lesson

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6. Answer the following questions:

$$3 \times 4 = 12$$

(a) Write a C program to find the summation of the digits of an integer.

(b) Write a C program to display the following pattern using nested loop:

```
      1
     1 2 1
    1 2 3 2 1
```

(c) Write a C program and declare an integer type array with 7 elements in it. Display the address of the individual elements in the array.

Or,

Write a strategy to find the summation of all the even numbers stored in an array.

(d) Write a C program to display the string characters.

7. Write a C program and define a recursive function to find the summation of first N natural numbers. 4

8. Explain the five categories of SQL Commands. 5



