

## SECTION A

1. Identify the compulsory attribute of `<img>` tag of html. 1  
(A) width (B) height  
(C) URL (D)  src
2. What is the use of Ctrl + S in a presentation? 1  
(A) Open a presentation  
(B) Close a presentation  
(C)  Save a presentation  
(D) Print a presentation
3. Which of the following is used to create numbered list in HTML? 1  
(A) `<nl>` (B)  `<ol>`  
(C) `<ul>` (D) `<dl>`
4. Which among the following category of header files has `abs(x)` function in C++? 1  
(A)  string  
(B) mathematical  
(C) character  
(D) text
5. Which of the following is used for displaying the text "OCTOBER" in UNDERLINE in HTML? 1  
(A)  `<ul> OCTOBER </ul>`  
(B) `<underline> OCTOBER </underline>`  
(C) `<u> OCTOBER </u>`  
(D) `<uline> OCTOBER </uline>`
6. Which element does **not** have corresponding closing tag? 1  
(A) Empty element  
(B) Container element  
(C)  Paired element  
(D) Grouped element



7. Find the output produced by the following program segment. Assume all header functions are included. 1

```
void main()
{
int x = 112;
int *y = &x ;
cout << *y;
}
```

- (A) 112  
(B) &x  
(C) \*y  
 (D) \*112
8. Which of the following attributes is used to specify the width of the image in HTML? 1
- (A) size (B) height  
(C) high (D) width
9. Which of the following aligns any text to the center of the webpage? 1
- (A) < align > (B) < center >  
(C) < text > (D) < c >
10. Which component is located at the top of the Impress window? 1
- (A) Menu bar (B) Title bar  
(C) Tool bar (D) Slide pane
11. Which of the following is a feature of Word Processor? 1
- (A) We can insert images  
(B) We can use Find and Replace  
 (C) We can use Spell Check  
 (D) All the above
12. Which among the following is an example of Spreadsheet software? 1
- (A) MS Word (B) Impress  
(C) OpenOffice Calc  (D) All the above



13. Expand INTERNET.

14. The octal equivalent of  $(732)_{10}$  is 4.

15. What will be the output produced by the program given below if the value of the variable x is 24 ?

```
#include <iostream.h>
int main()
{
    int x;
    int y;
    cin >> x;
    y = 8;
    if (x / y > 1)
        cout << "Good Evening";
    else
        cout << "Good Afternoon";
}
```

16. The decimal equivalent of  $(FBD)_{16}$  is 1.6.

17. Which tag is used to create a horizontal line in a webpage ? -

18. What is the header file for `fabx(x)` ?

19. What is the ASCII value of 'D' ? -

20. Expand IP Address. - *Information postal*

8) 732 / 9  
- 72  
---  
12  
- 9  
---  
3

8  
9  
2

LEC  
C R



21. Consider the program given below, What output will be produced if the value for the variable ch is entered as 'D'?

1

```
#include <iostream.h>
void main()
{
    char ch;
    cin >> ch;
    switch(ch)
    {
        case 'A' :
            cout << "A Grade" ;
            break;
        case 'B' :
            cout << "B Grade" ;
            break;
        case 'C' :
            cout << "C Grade" ;
            break;
        case 'D' :
            cout << "D Grade" ;
            break;
        default :
            cout << "NO Grade" ;
    }
}
```

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22. What will be the output produced by the code given below?

1

```
#include <iostream.h>
int main()
{
    int i = 0, s = 0;
    while (i < 4)
    {
        s = s * i;
        i++;
    }
    cout << s;
}
```

10! / 4!

just s.



23. What will be the output produced by the below given code?

1

```
#include <iostream.h>

void main()
{
    struct emp
    {
        int eno ;
        float sal ;
    };

    struct emp E;
    E.eno = 4521;
    E.sal = 82901;
    cout << E.eno << E.sal;
}
```

24. What is Statement1 in the program given below?  
(assume all header files are included.)

1

```
#include <iostream>

void modify(int); // Statement 1

void main()
{
    int a = 5;
    cout << "a = " << a << endl;
    modify(a);
    cout << "a = " << a;
}

void modify(int b)
{
    b = 30;
    cout << "a = " << b;
}
```



25. Fill in the blanks :

- (a) HTML requires ofstream.h header file.
- (b) Spreadsheet opens the file in output mode.

26. State whether the following statements are True or False :

- (a) In the C++ statement, char \*a = "C++", a is a character pointer to the string "C++". - True
- (b) Object pointers cannot be used to access the public members of an object. - False

27. Give one word for the following :

- (a) The data in a spreadsheet can be pictorially represented through Tables and column
- (b) Formula is used for sorting.

**SECTION B**

28. (a) What do you mean by full duplex transmission ?

**OR**

(b) What do you mean by wideband ? - used for frequency and label distance

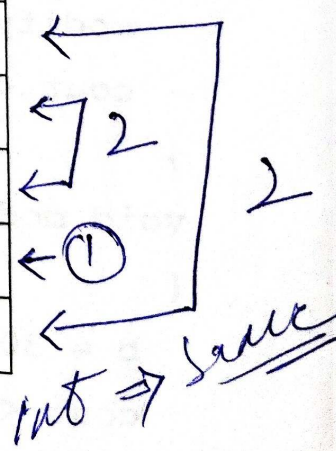
29. (a) Define database. - Set of data stored together.

**OR**

(b) What do you mean by data redundancy ?

30. Write SQL queries for the following based on the below given TRAIN table. 2

TRAIN			
TRAINNO	TNAME	DIST	TYPE
T001	BLR-DEL	3300	EXPRESS
T002	BLR-CHENNAI	500	VANDE BHARAT
T003	DEL-MEERUT	450	VANDE BHARAT
T004	DEL-HYD	3100	RAJADHANI
T005	CHENNAI-PUNE	1300	EXPRESS



(a) Insert the record T006, BLR-ERS, 750, EXPRESS.

(b) Display the details of the Vande Bharat Trains.

2, T002, T003



31. Name the two types of scroll bars available in Writer Window. 2  
① Tool, ② Side window

32. Define container element in HTML and provide an example. 2  
→ Adig, to buy every piece one by one.

33. #include <iostream.h> 2  
#include <string.h>  
struct CLASS

```
{  
char classname[20];  
int str;  
};  
  
void main()  
{  
<u>Contain > // statement 1  
cin >> class1.classname;  
Show str // statement 2  
}
```

Complete the above code for the following :  
Statement 1 : Create two objects class1 and class2 of type CLASS.  
Statement 2 : Display the value of the variable classname of the  
Structure Variable class1.

class1 +  
class2

Total output 1+2 = 3 // 7

Good > BAD > Thrill  
BAD > Good >



34 (a)

Write SQL queries to create the below given TRAIN table :

2

Setting		TRAIN
TRAINNO	VARCHAR(6)	PRIMARY KEY
TNAME	VARCHAR(15)	function key
DIST	INT(4)	Advance key
TYPE	CHAR(15)	Foreign key

OR

(b) Define char datatype with an example. - Represents regular character.

35. Define the following terms (Any Two) :

- (a) Class - *assembly of great people together its achieve on goal.*
- (b) Members
- (c) Default Constructor
- (d) Nothing to do Constructor - *guide constructor put diff people into places.*

36. Create a webpage using the following instructions :

3

- (a) Heading 'Examination' on the center of the webpage with heading size 4. = *Consisting of heading h1*
- (b) The Paragraph "I feel My Exam has gone good" aligned towards the right of the webpage. - *<align> " I feel my exam has a gone good"*
- (c) An image to be set having the file name "NIOS2024.jpg" with a height of 10 and width of 8. - *<h 10> and <w 8>*

37. Define the following terms (Any Three) :

- (a) Conceptual data model - *Pre occupied data used to test program.*
- (b) Schema
- (c) Key - *Any type of command used for better operations.*
- (d) Not null
- (e) Cardinality - *used to perform tasks from the CPU itself and analyse.*





38.

(a)

Answer the questions from (i) to (iv) based on the code given below (assume all header files are included):

4

```

class Students {
    int Rollno;
    char SName[20];
    float Marks1;
protected:
    void Result();
public:
    Studentsent();
    void Enroll();
    void Display();

```

```

class Teacher(
    long TCode;
    char TName[20];
protected:
    float Salary;
public:
    Teachers();
    void Enter();
    void Show();
};

```

```

class COURSE: public Students, private Teachers {
    long CCode[10];
    char CourseName[50];
    char StartDate[8], EndDate[8];
public:
    COURSE();
    void Commence();
    void CDetail();
};

```

#7611339

#7611339

#7611339

Void enroll();

class Teacher

char SName[20];

Show/

float Salary > :// Tcode ;  
public >

English [50];  
26 [8], 30 [8]

Computer Science  
Today

Should be given



[ Contd...

(i) Write the names of member functions, which are accessible from objects of class COURSE. → Code // Pluric

(ii) Write the names of all the data members, which is/are accessible to member function Commence of class COURSE.

(iii) Write the names of all the members, which are accessible from objects of class Teachers. → English // Science >;

(iv) Which type of Inheritance is illustrated in the above C++ code? → Java + Notepad // C++ ;

OR

(b) Define Multiple Inheritance. Display the structure by taking an example or with syntax. → Syntax display

(a) Write a program to create an array of N elements, accept a number from the user, and by using linear search, identify whether the accepted number is present in the array or not.

OR

(b) Write a C++ program that accepts two numbers (a, b) from the user and passes to a function, the function will perform  $(a+a) * (b+b)$  to the main program which will display the output to the user.