

COMPUTER SCIENCE

(330)

Time : 3 Hours]

[Maximum Marks : 60

Note : (i) This Question Paper consists of 39 questions in all.

(ii) All questions are compulsory.

(iii) Marks are given against each question.

(iv) **Section-A** consists of

(a) Question Nos. **1** to **12**—Multiple Choice-type Questions (MCQs) carrying 1 mark each. Select and write the most appropriate option out of the four options given in each of these questions.

(b) Question Nos. **13** to **24**—carry 1 mark each and Questions Nos. **25** to **27** Objective type questions of 2 marks each. Attempt these questions as per the instructions given for each of the questions **13** to **27**.

(v) **Section-B** consists of

(a) Question Nos. **28** to **35**—Very Short Answer-type questions carrying 2 marks each to be answered in the range of 30 to 50 words.

(b) Question Nos. **36** and **37**—Short Answer-type questions carrying 3 marks each to be answered in the range of 50 to 80 words.

(c) Question Nos. **38** and **39**—Long Answer-type questions carrying 4 marks each to be answered in the range of 80 to 120 words.

An internal choice has been provided in some of these questions in **Section-B**. You have to attempt only one of the given choices in such questions.

- (1) Answers of all questions are to be given in the Answer-Book given to you.
- (2) 15 minutes time has been allotted to read this Question Paper. The Question Paper will be distributed at 2:15 p.m. From 2:15 p.m. to 2:30 p.m., the students will read the Question Paper only and will not write any answer on the Answer-Book during this period.

SECTION-A

Note : Question Numbers **1** to **12** are MCQs of 1 mark each.

1. Which attribute of the tag is used to define the source URL of the image displayed on a webpage?

(A) source

(B) url

(C) src

(D) path

1

2. Which among the following allows you to save and close a presentation in PowerPoint?

(A) Open a presentation

(B) Close a presentation

(C) Que a presentation

(D) Print a presentation

1



3. Which HTML tag is used to define an unordered (bulleted) list? 1
(A) <bl> (B)
(C) (D) <dl>
4. To compute e^x in C++, which type of header file must be included? 1
(A) String (B) Mathematical
(C) Character (D) Text
5. Which of the following is used for displaying the text "WELL DONE" in BOLD in HTML? 1
(A) <bold> WELL DONE </bold> (B) <bl> WELL DONE </underline>
(C) WELL DONE (D) <bb> WELL DONE </bb>
6. What is the correct way to close a line break tag in HTML? 1
(A) </br> (B) <br//>
(C) No closing tag is required (D) <*br>
7. Find the output produced by the following program segment. Assume all header files are included. 1
`void main()
{
int x = 1011;
int*y = &x;
cout<<*y;
}`
(A) 1011 (B) *1011
(C) &1011 (D) &X
8. Which HTML attribute is used to define a border around an image? 1
(A) line (B) box
(C) border (D) black line
9. Which tag in HTML forces the content to move to the next line? 1
(A) <break> (B)

(C) <line> (D) <linebreak>
10. Which type of content can be inserted into a LibreOffice Impress slide? 1
(A) Text (B) Picture
(C) Audio (D) All of the above



11. In word processors like MS Word or LibreOffice Writer, which of the following is supported? 1
(A) Creating data (B) Formatting data
(C) Printing data (D) All of the above
12. Identify the software that is categorized as spreadsheet software. 1
(A) MS Word (B) Impress
(C) Lotus 1-2-3 (D) All of the above
13. Name a communication protocol used in networking. 1
14. Fill in the blank : 1
The octal equivalent of $(1001)_{10}$ is ____.
15. What will be the output produced by the below given program if the value of the variable x is 18? 1
- ```
#include<iostream.h>
int main()
{
 int x;
 cin>>x;
 y=3
 if (x/y<12)
 cout<<"Morning looks Good";
 else
 cout<<"Evening looks Dull"; return 0;
}
```
16. Fill in the blank : 1  
The decimal equivalent of  $(ABC)_{16}$  is \_\_\_\_.
17. Which of the heading tags from  $\langle h1 \rangle$  to  $\langle h6 \rangle$  shows the largest font by default? 1
18. To use  $\log_{10}(x)$  in a C++ program, which library should be included? 1
19. What is the ASCII value of 'B'? 1
20. What does ARPANET stand for? 1
21. Consider the below given program. What output will be produced if the value for the variable ch is entered as 'A'? 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";
}
}

```

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

1

```

#include<iostream.h>
void main()
{
int i=0, s22=0;
while (i < 4)
{
s22=s22+i;
i++;
}
cout<<s22;
}

```

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=9001;
E.sal=90001.50;
cout<<E.eno<<E.sal;
}

```



24. What is Statement1 in the below given program? Assume all header files are included. 2

```
#include<iostream>
void change(int); //Statement1
void main()
{
    int a = 5;
    cout<<"a="<<a<<endl;
    change(a);
    cout<<"a="<<a;

}
void change(int b)
{
    b=10;
}
```

25. Fill in the blanks : 2

- (a) Writing data on the data file requires _____ header file.
(b) ios :: app opens the file in _____ mode.

26. State whether the following statements are True or False : 2

- (a) A pointer is a variable that refers to the location of another variable.
(b) Object pointers are used to create or refer objects during runtime.

27. Fill in the blanks : 2

- (a) The smallest unit of a worksheet is known as _____.
(b) _____ page of a spreadsheet is known as worksheet.

SECTION-B

28. What is simplex communication in networking? 2

Or

What is meant by the term 'bandwidth' in data communication?

29. What is an attribute in the context of a database? 2

Or

What is a domain in the context of a database?



30. Write SQL queries for the following based on the below given BUS table :

2

BUS			
BUSNO	BUSNAME	YEAR	TYPE
B001	NEERU	2024	VOLVO
B002	RAVANA	2022	SCANIA
B003	MAHAVEER	2019	VOLVO
B004	ROLI	2024	TATA
B005	VIKRAM	2019	BENZ

(a) Insert the record B006, LAXMI, 2023, VOLVO.

(b) Display the details of VOLVO buses.

31. Name any *two* components of Writer window.

2

32. Why should an HTML document be saved with the extension.html? Name one browser that helps us to open an HTML document.

2

33. Consider the code fragment given below:

```
#include<iostream.h>
#include<string.h>
struct ITEM
{
char iname[20];
int price;
};

void main()
{
____ // Statement 1
____ // Statement 2

cout<<s1.iname;
cout<<s2.price;
}
```

Complete the above code for the following :

2

Statement 1 : Create two objects s1 and s2 of ITEM.

Statement 2 : Input the value for the variable iname of the structure variable s1.

