Answer any 5 questions from 1 to 6. Each correct answer carries 1 score.

(5 × 1 = 5)

- 1. Name the logic gate which produces the output 1, only if all the inputs are 1.
- 2. The program written in high level language is called \_\_\_\_\_.
- 3. Which type of statement is m = 10?
- 4. If a = 2, b = 3 and c = ++a + b++. Find the value of 'c'.
- 5. The smallest index of an array is \_\_\_\_\_.
- 6. A unique address (12 digit hexadecimal number) assigned to each NIC is called

Draw the block diagram of John Von Neumann's computer architecture.

Answer any 9 questions from 7 to 18. Each correct answer carries 2 scores.  $(9 \times 2 = 18)$ 

(a) ENIAC

Expand the following:

7.

8.

10.

- (b) VLSI
- 9. If  $(x)_{g} = (101011)_{2} = (y)_{16}$ . Find the values of x and y.

What are the major functions of operating system?

- 11. Distinguish between logical error and syntax error in a program.
- 12. Write an algorithm to print the numbers up to 100 in reverse order.
- 13. List the data type modifiers in C++.

	16. Explain the difference between call by value method and call by reference method.
1	7. Explain the format of URL with an example.
1	8. Write the advantages of social media.
	and antages of social media.
10	Answer any 9 questions from 19 to 29. Each correct answer carries 3 scores. $(9 \times 3 = 27)$ List and explain any three mathers.
19	three methods of representing characters in computer
20	and the state of t
21.	Categorize the software given below into operating system, application package, and utility program.
	Linux, OpenOffice Calc, Windows, WinZip, Kaspersky, OpenOffice Writer
22.	(a) Draw a flow chart for the full
-2.	and the well all the following algorithm:
	Step 1 : Start Step 2 : N=1
	Step 3: Print N
	Step 4 : 14-14+1
	Step 5: if N<=10 Then goto step 3
1	Step 6: Stop
	(b) Write the output of the above algorithm.
23.	Manufacture and the second sec
	Identify invalid identifiers and write reason.
(	(a) _4ac (b) a@b (c) For (d) 4ac (e) main
24. I	Differentiate between Type Casting and Type Promotion.

14. List any 4 operations that can be performed in an array.

15. Compare stremp() and strempi().

```
Rewrite the following program using while loop and do.....while loop:
     #include<iostream>
     using namespace std;
     int main()
    for (int i=1; i \le 10; i++)
    cout << i:
    return 0;
26. Write an algorithm for bubble sorting.
27. Write the use of the following string function in C++:
    (a)
        gets()
    (b) getline()
    (c) write() write()
28. Write the syntax and use of following functions in C++:
        strcpy()
    (a)
    (b)
        pow()
```

Explain any 3 advantages of email.

29. Explain any 3 advantages of email

islower()

(c)

30. Define the term e-Waste. Explain briefly about any four e-Waste disposal methods.

Answer any 2 questions from 30 to 32. Each correct answer carries 5 scores,  $(2 \times 5 = 10)$ 

- 31. Write a program to check whether the given number is palindrome or not.
- 32. Define Network topology. Explain about the four major topologies.