

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

**(5 × 1 = 5)**

1. The base of hexadecimal number system is \_\_\_\_\_.  
(2, 8, 10, 16)
2. Pick the full form of HDMI from the following :  
(High Definition Multiple Interface, High Definition Multimedia Interface,  
High Definition Multimedia Internet, High Definition Media Interface)
3. Name the error which is due to improper planning of the program's logic.
4. The multiple use of input or output operators in a single statement is called \_\_\_\_\_.
5. Write the keyword which is used to create symbolic constants whose value can never be changed during execution.
6. Which among the following is not a search engine ?  
(Google, Bing, Ask, Mozilla Firefox)

**Answer any 9 questions from 7 to 18. Each carries 2 scores.**

**(9 × 2 = 18)**

7. Convert as directed :
  - (a)  $(38)_{10} = (?)_2$
  - (b)  $(AB)_{16} = (?)_8$
8. Write a note about Unicode.
9. List and explain the four freedoms for free and open source software defined by Free Software Foundation (FSF).
10. Explain any four advantages of flowcharts.
11. (a) Define Coding. **(1)**  
(b) The program written in any HLL is known as \_\_\_\_\_. **(1)**

12. Pick the invalid identifier from the following list and give reason for invalidity :  
(world\_cup, world.cup, world cup, 2worldcup, break, worldcup2022)

13. Given  $x = 6$ ,  $y = 3$ . Find the value of  $z$  in the following expression :

$$z = 5 + \frac{x}{y}$$

14. List any four relational operators in C++.

15. List any four guidelines for coding.

16. Explain the working of if...else statement in C++.

17. Explain the difference between hub and switch.

18. Write any four advantages of e-Business.

**Answer any 9 questions from 19 to 29. Each carries 3 scores.**

**(9 × 3 = 27)**

19. Explain any three advantages of Computers.

20. (a) What is e-Waste ?

**(1)**

(b) List the four e-Waste disposal methods.

**(2)**

21. Draw the flowchart to find perimeter of a rectangle.

22. Categorize the following token and fill up the given table by placing them at the proper places :

(93.5, "Football", +, float, long, %)

| Keywords | Literals | Operators |
|----------|----------|-----------|
|          |          |           |

23. Explain any three fundamental data types in C++.
24. (a) What is type modifier ? (1)  
(b) List the four types modifiers in C++. (2)
25. Write the syntax of switch statement in C++.
26. Consider the following URL and classify the different parts of the URL.  
[https://hscap.kerala.gov.in/student\\_status.php](https://hscap.kerala.gov.in/student_status.php)
27. Explain any three advantages of using e-mail.
28. Explain the different classification of social media.
29. Explain any three e-learning tools.

**Answer any 2 questions from 30 to 32. Each carries 5 scores.**

**(2 × 5 = 10)**

30. List and explain any five input devices.
31. Consider the following C++ code
- ```
int n=1;
while (n<=10 )
{
    cout<<n<<"\t";
    n+=2;
}
```
- (a) Write the output of above code. (1)  
(b) Identify the loop elements of the above code. (2)  
(c) Convert the above code using for loop. (2)
32. (a) List the various types of guided communication channels. (3)  
(b) Explain any one guided communication channel. (2)