

**RAJA RAVI VARMA GIRLS HIGHER SECONDARY SCHOOL , KILIMANOOR**  
**FIRST YEAR HIGHER SECONDARY PRE MODEL EXAM 2023**

**Computer Application- COM**

Maximum : 60 Scores

Time:2Hrs

**Answer any 5 questions from 1 to 6 . Each carries 1 Score. (5\*1 = 5)**

1. \_\_\_\_\_ is the processed form of data.
2. Write an example for ternary operator in C++.
3. \_\_\_\_\_ is a program that rearranges files on a computer hard disk.
4. Name the wireless technology used for short range communication .
5. List any 2 search engines.
6. The system of financial exchange between buyers and sellers in an online environment is known as\_\_\_\_\_

**Answer any 9 questions from 7 to 18. Each carries 2 Scores (9\* 2 = 18)**

7. Arrange the following in proper order  
Process, Output, Storage, Distribution
8. Name any 4 registers in computer.
9. What is cache memory?
10. What are the different types of characters in C++ character set ?
11. List any two fundamental data types available in C++.
12. Define cascading of I/O operators with an Example
13. Differentiate between entry controlled loop and exit controlled loop.  
Write examples for each.
14. Write the syntax of if-else statement.
15. List any 4 advantages of networking.
16. Write short note on  
a. Switch      b. Gateway
17. Name the types of e-governance.
18. What is e-learning ? what are the advantages of e-learning?

**Answer any 9 questions from 19 to 29. Each carries 3 Scores. (9 \*3 = 27)**

19. What is e-waste? Explain any 2 e-waste disposal methods.
20. (a). List any 2 functions of Operating System.  
(b). Compare Compiler and Interpreter.
21. Categorize the following tokens.  
Data, break, ==, {, '\n', int

22. Rewrite the following algorithm using flowchart.

- 1.Start
- 2.input a,b,s
- 3.s=a+b
- Print s
- 5.Stop

23.Explain any 3 expressions in C++.

24.Write the structure of C++.

25.Explain the methods of type conversion.

26.Compare switch and if else if ladder.

27. (a). What are the four components of looping statement?

(b). Rewrite the following using while loop.

```
for (i=1; i<10; i++)
{
    cout<<i<<'\n';
}
```

28.What are the hardware and software requirements for connecting a computer to the internet?

29.Write short note on

- (i) Hacking.
- (ii) Phishing
- (iii) Virus

**Answer any 2 question from 30 to 32. Each carries 5 scores (2\*5 = 10)**

30. Define topology. Explain any 4 network topologies.

31. (a) List the phases of programming.

(b)What is Debugging ?

(c)List the Different types of errors in c++.

32.(a)Represent -32 in

Sign and magnitude representation.

1's Complement representation.

(b) Write short note on Unicode.

(c)Convert  $(1101011011)_2$  to octal.

**Prepared By:**

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