



**QUARTERLY EXAMINATION - 2024-25**  
**[2018 TO 2023 MOST IMPORTANT 5 MARK QUESTIONS]**  
**[CHAPTER 1 TO 10]**

**STD: XI**

**SUB: COMPUTER SCIENCE**

**PART-IV [5 MARKS]**

1. Explain the basic components of a computer with a neat diagram.
2. Discuss the various generations of computers
3. a) Write the procedure to convert fractional Decimal to Binary  
b) Convert  $(98.46)_{10}$  to binary
4. a) Add  $1101010_2 + 101101_2$  b) Subtract  $1101011_2 - 111010_2$
5. Convert the following Decimal numbers to its equivalent Binary, Octal, Hexadecimal  
a) 1920 b) 255 c) 126
6. Explain the fundamental gates with expression and truth table
7. Explain the Derived gates with expression and truth table
8. Explain the characteristics of a microprocessor
9. Arrange the memory devices in ascending order based on the access time
10. Explain the types of ROM
11. Explain the concept of a Distributed Operating System along with its advantages
12. List out the points to be noted while creating a user interface for an Operating system
13. Explain the process management algorithms in Operating System
14. Explain the versions of Windows Operating System
15. Explain the different ways of finding a file or Folder
16. Write the specification of an algorithm hypotenuse whose inputs are the lengths of the two shorter sides of a right angled triangle, and the output is the length of the third
17. Exchange the contents: Given two glasses marked A and B. Glass A is full of apple drink and glass B is full of grape drink. For exchanging the contents of glasses A and B, represent the state by suitable variables, and write the specification of the algorithm
18. Trace the step-by-step execution of the algorithm for factorial (4). Factorial (n) -- inputs : n is an integer ,  $n \geq 0$  -- outputs :  $f = n!$   $f, i := 1, 1$  while  $I \leq n$   $f, I := f \times I, i +$
19. Write about Binary operators used in C++.
20. What are the types of Errors?
21. What are tokens in C++? Explain types of tokens with example
22. Explain control statement with suitable example
23. What is an entry control loop? Explain any one of the entry controlled loop with suitable example
24. What are the key differences between if... else and switch statements in C++?
25. Explain multi way branch statement (Switch) with a suitable example.
26. Explain the following a. Inkjet Printer b. Multimedia projector c. Bar code / QR code Reader

**NOTE:**

- TOPPER STUDENTS MUST REFER ALL BOOK BACK 2, 3 & 5 MARK QUESTIONS
- **THIS 26 [FIVE MARK] QUESTIONS ARE MOST IMPORTANT PUBLIC /PREVIOUS YEARS QUARTERLY QUESTIONS [2018 TO 2023]**

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