

COMMON QUARTERLY EXAMINATION - 2024**Standard - XI**Reg.No.

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Marks: 70**Time: 3.00 hrs.****COMPUTER SCIENCE****PART - I****15×1=15****I. Choose the correct answer:**

1. Name the volatile memory.
a) RAM b) ROM c) EPROM d) PROM
2. Expansion for ASCII
a) American school Code for information interchange
b) American Standard Code for information Interchange
c) All standard code for Information Interchange
d) American Society code for information Interchange
3. Which gate is called as the logical inverter?
a) AND b) OR c) NOT d) XNOR
4. Which is the fastest memory?
a) Hard disk b) main memory c) Cache Memory d) Blue Ray Disc
5. File Management Manages
a) Files b) Folders c) Directory systems d) All the above
6. An Example for single task operating system is
a) Linux b) Windows c) MS - DOS d) UNIX
7. The Short cut key used to rename a file in windows
a) F2 b) F4 c) F5 d) F6
8. Stating the input property and the input-output relation a problem is known
a) Specification b) statement c) algorithm d) definition
9. If $i = 5$ before the assignment $i = i - 1$ after the assignment, the value of i is
a) 5 b) 4 c) 3 d) 2
10. What was the original name given to C++?
a) CPP b) Advanced C c) C with Classes d) Class with C
11. Which of the following is called as compile time operators?
a) sizeof b) pointer c) Virtual d) this
12. This can be used as alternate to endl command
a) \t b) \b c) \O d) \n
13. Which of the following data types is not a fundamental type?
a) signed b) int c) float d) char
14. The Multiway branch statement
a) if b) if ...else c) switch d) for
15. Which of the following is the exit control loop?
a) for b) while c) do... while d) if ...else

PART - II**II. Answer any 6 questions (Q.No.24 is compulsory)****6×2=12**

16. Distinguish between data and information.
17. convert $(65)_{10}$ into Binary number.
18. What is HDMI?
19. Differentiate SAVE and SAVE As option.

26) $22_{10} = 11101010$
 $15_{10} = 00001111$
 $-7_{10} = 11111001_2$

b) $20_{10} = 00010100$
 $25_{10} = 00011001$
 $45_{10} = 00101101_2$
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- 20. What is an Invariant?
- 21. What is meant by a Token? Name the token available in C++.
- 22. What is the use of setw() format manipulator?
- 23. Compare an if and a ?: operator.
- 24. Write the De Morgan's law.

PART - III

III. Answer any 6 questions. (Q.No.33 is compulsory)

6x3=18

- 25. Write the characteristics of sixth generation.
- 26. Add: a) $-22_{10} + 15_{10}$ b) $20_{10} + 25_{10}$
- 27. Give the truth table of XOR gate
- 28. Differentiate CD and DVD.
- 29. Write the two ways to create a new folder.
- 30. What is case analysis?
- 31. Why is main function special?
- 32. Write note on Recycle bin.
- 33. Convert the following if -else a single conditional statement.

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if (x >= 10)
    a = m + 5;
else
    a = m;
    
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$a = (x >= 10) ? m + 5 ; m;$

PART - IV

IV. Answer all the questions.

5x5=25

- 34. a) Explain the basic components of computer with neat diagram.

(OR)

- b) Find 1's Complement and 2's complement for the following decimal number.

- i) -98 b) -135

i) $98_{10} = (1100010)_2 \Rightarrow -98 = (1001110)_2$

- 35. a) Explain the types of ROM.

(OR)

ii) $135_{10} = (1000111)_2 \Rightarrow -135 = (0111100)_2$

- b) Explain the process management algorithms in Operating System.

- 36. a) Explain the Characteristics of Microprocessor

(OR)

- b) Explain the versions of Windows Operating System.

- 37. a) What are the type of Errors?

(OR)

- b) Evaluate the following C++ expressions where x,y,z are integers and m,n are floating point numbers. The value of $x = 5, y = 4, z = 2.5$

i) $n = x + y/x;$ **5** ii) $z = m * x + y$ **16** c) $z = (x++) * m + x;$ **18**

- 38. a) What are arithmetic operators in C++? differentiate unary and binary arithmetic operators. Give example for each of them.

(OR)

- b) What is an entry control loop? Explain any one of the entry controlled loop with suitable example.