

QUARTERLY EXAMINATION - 2023**STD: XI****Time Allowed: 3.00 Hrs.****COMPUTER SCIENCE****Maximum Marks: 70****Note: i) Answer all the questions. PART - I****15 x 1 = 15****ii) Choose the most suitable answer and write the code with corresponding answer.**

1. 2^{70} is referred as
 - a) Kilo
 - b) Tetra
 - c) Peta
 - d) Zetta
2. _____ is similar to the upside-down design of the mouse.
 - a) Bar code
 - b) Track ball
 - c) Scanner
 - d) Light pen
3. Which gate circuit is an gate followed by an inverted?
 - a) XNOR
 - b) AND
 - c) OR
 - d) NOR
4. What is the 1's complement of 10110101
 - a) 101101010
 - b) 01001010
 - c) 10101101
 - d) 01010101
5. Which of the following is not the part of a microprocessor unit?
 - a) Control unit
 - b) ALU
 - c) Cache memory
 - d) Register
6. Display devices are connected to the computer through.....
 - a) VGA connector
 - b) USB
 - c) ps/2 port
 - d) SCSI port
7. Which of the following is not a function of an operating system.?
 - a) Compiler Environment
 - b) Memory management
 - c) Process Management
 - d) Security management
8. If you want to select multiple files or folders, use _____
 - a) Ctrl+click
 - b) Shift+Click
 - c) F2+click
 - d) None
9. The shortcut key used to rename a file in windows.
 - a) F2
 - b) F4
 - c) F5
 - d) F6
10. If $i=6$, the assignment $i: =i+1$ after the assignment, the value of i is.....
 - a) 6
 - b) 7
 - c) 5
 - d) 3
11. _____ boxes represent condition in the statement.
 - a) Rectangle
 - b) Parallelogram
 - c) Diamond
 - d) ellipse
12. Who developed C++?
 - a) Bjarne Stroustrup
 - b) Bill Gates
 - c) Sundar Pitchai
 - d) Charless Babbage.
13. Which of the following operators is stream insertion operators in c++?
 - a) >>
 - b) <<
 - c) < >
 - d) ^^
14. _____ is the multiway branching statements.
 - a) Simple if
 - b) if Else
 - c) for
 - d) switch statement
15. A continue statement works quite similar to the _____ statement
 - a) Go to
 - b) break
 - c) Continue
 - d) statemetnts

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PART - II**Note: Answer any six questions. Question No. 24 is compulsory****6 x 2 = 12**

- ✓ 16. What is a computer?
- ✓ 17. What are derived gates?
- ✓ 18. Which source is used to erase the content of a EPROM?
- ✓ 19. Define an algorithm.
- ✓ 20. Define a loop invariant.
- ✓ 21. List out the cases of recursive solver.
- ✓ 22. The following constants are of which type? i) 23.197 ii) 7.214 iii) 0.00005 iv) 0.319
- ✓ 23. Write the syntax of conditional operator with an example.
- ✓ 24. What is Association with an example.

PART - III**Note: Answer any six questions. Question No. 33 is compulsory.****6 x 3 = 18**

- ✓ 25. Write short note on impact printer.
- ✓ 26. Add a) $-22_{10} + 15_{10}$ b) $30_{10} + 25_{10}$
- ✓ 27. Write down the interfaces and ports available in a computer.
- ✓ 28. Write a note on Recycle bin.
- ✓ 29. What is Recursion with give an example.
- ✓ 30. Define a terms: i) **Operators** with an example. ii) **separators** its usages.
- ✓ 31. Write the rules for naming an identifier with an example.
- ✓ 32. Write if-else -if ladder with an example.
- ✓ 33. Write syntax of declaration of a reference variable with an example.

PART - IV**Note: Answer all the questions:****5 x 5 = 25**

- 34) a) Explain the following:
 - ✓ i) Inkjet printer ii) Multimedia projector iii) Bar code/ QR code Reader. [OR]
 - b) Explain the derived gates with expression and truth table.
- 35) a) Explain the process management algorithm in operating system. [OR]
 - ✓ b) Explain detail about variations of for loop with an example.
- 36) a) What are the types of Errors? With an example. [OR]
 - ✓ b) Explain the different ways of finding a file or folder.
- 37) a) Write a program to find sum of the series $S = 1 + x + x^2 + \dots + x^n$ [OR]
 - ✓ b) Write a program to calculate Net salary with an input and output.
- 38) a) Explain detail about a multi-way branching statement syntax with an example. [OR]
 - ✓ b) List out the various notations in flowcharts with its neat diagram.

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