

QL

Quarterly Examination - 2024

11/10/24

XI Std

COMPUTER SCIENCE

Time: 3 Hrs

Marks: 70

Part - I

Answer all the questions

15X1 = 15

1. First generation computers used
(a) Vacuum tubes (b) Transistors (c) Integrated circuits (d) Microprocessors
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. NOR is a combination of? (a) NOT(OR) (b) NOT(AND) (c) NOT(NOT)
(d) NOT(NOR)
4. Which of the following is not the part of a microprocessor unit?
(a) ALU (b) Control unit (c) Cache memory (d) register
5. What is the capacity of 12cm diameter DVD with single sided and single layer?
(a) 4.7 GB (b) 5.5 GB (c) 7.8GB (d) 2.2 GB
6. Operating system is a
(a) Application Software (b) Hardware (c) System Software (d) Component
7. The shortcut 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. How many times the loop is iterated?
i := 0
while i ≠ 5
i:=i+1 (a) 4 (b) 5 (c) 6 (d) 0
10. Which of the following is not an invariant of the assignment? $m, n := m+2, n+3$
(a) $m \bmod 2$ (b) $n \bmod 3$ (c) $3 \times m - 2 \times n$ (d) $2 \times m - 3 \times n$
11. Who developed C++?
(a) Charles Babbage (b) Bjarne Stroustrup (c) Bill Gates (d) Sundar Pichai
12. How many categories of data types are available in C++?
(a) 5 (b) 4 (c) 3 (d) 2
13. The multi way branch statement:
(a) if (b) if ... else (c) switch (d) for.
14. How many times the following loop will execute? for (int i=0; i<10; i++)
(a) 0 (b) 10 (c) 9 (d) 11
15. This can be used as alternate to endl command:
(a) \t (b) \b (c) \0 (d) \n

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PART II

Answer any 6 questions. Question no 24 is compulsory.

6X2 = 12

16. What is the function of memory?
17. Write the 1's complement procedure.
18. What is an Instruction?
19. Write a note on Multiprocessing?
20. Differentiate Save and save As option.
21. Define an algorithm
22. What is meant by a token? Name the token available in C++.
23. What is selection statement? Write its types?
24. Compare an if and a ? : Operator

PART III

Answer any 6 questions. Question no 33 is compulsory.

6X3 = 18

25. Write the characteristics of Sixth Generation?
26. Give the truth table of XOR gate
27. Classify the microprocessor based on the size of the data
28. Differentiate copy and move
29. What is abstraction?
30. Why is main function special?
31. What are arithmetic operators in C++? Differentiate unary and binary arithmetic operators. Give example for each of them.
32. Write the De Morgan's law
33. Write the syntax and purpose of switch statement.

PART IV

Answer all the questions.

5x5=25

34. Explain the basic components of a computer with a neat diagram (or)
Find 1's Complement and 2's Complement for the following Decimal number
a) -98 b) -135
35. Explain the characteristics of a microprocessor. (or)
Explain the process management algorithms in Operating System
36. Explain the different ways of finding a file or Folder. (or)
What are the types of Errors?
37. What is an entry control loop? Explain any one of the entry controlled loop with suitable example. (or)
Explain the types of ROM.
38. Explain the logic gates with expression and truth table (or)
Explain the concept of a Distributed Operating System along with its advantages.

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