V11CS   VIRUDHUNAGAR DIST. COMMOM EXAMINATION January-2025

XI – COMPUTER SCIENCE (I – Revision Test)

Time : 3.00 hrs.   MARKS :70

PART –I

I Answer all the questions   15 x 1= 15

1. Identify the input device
   a) Printer   b) Mouse   c) Plotter   d) Projector

2. Which refers to the number of bits processed by a computer's CPU
   a) Byte   b) Nibble   c) Word length d) bit

3. What is the 1's complement of 00100110
   a) 00100110   b) 11010001   c) 11011001   d) 00101001

4. What is the capacity of 12cm diameter DVD with single sided and single layer?
   a) 4.7 GB   b) 5.5 GB   c) 7.8 GB   d) 2.2 GB

5. Which of the following operating system support mobile dev ices?
   a) Windows-7   b) Linux   c) BOSS   d) iOS

6. The file management system used by linux is
   a) Ext2   b) NTFS   c) FAT   d) NFTS

7. From the options given below choose the operations managed by the operating system
   a) Memory   b) Processes   c) Disks and I/O Devices   d) All of the above

8. Omitting details inessential to the task and representing only the essential features of the task is known as :
   a) Specification   b) Abstraction c) Composition   d) Decomposition

9. If C is false just before the loop, the control flows through

1	S1
2	While C
3	S2
4	S3

   a) S1; S3   b) S1;S2;S3   c) S1;S2;S2;S3   d) S1;S2;S2;S2;S3

10. Which of the following is not an invariant of the assignment : m,n := m+2,n+3
    a) m mod 2   b) n mod 3   c) 3 X m-2 X n   d) 2 X m – 3 X n

11. Which of the following operator is extraction operator in C++?
    a) >>   b) <<   c) <>   d) ^^

12. Which of the character is used as suffix to indicate a floating point value?
    a) F   b) C   c) L   d) D

13. The Multi way branch statement
    a) If   b) if...else   c) switch   d) for

14. The ASCII equivalent for the Alphabet 'G' is
    a) 68   b) 69   c) 70   d) 71

15. Which of the following is called as compile time operators?
    a) Sizeof   b) pointer   c) virtual   d) this

PART –II

II Answer any 6 questions and question no.24   is compulsory   6 x 2 =12

16. What are the components of CPU

17. Convert the decimal number $(114)_{10}$ into Binary number

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18. Which source is used to erase the content of a EPROM?

19. What is a GUI?

20. What is known as Multitasking?

21. How do we refine a statement?

22. Define a Loop Invariant?

23. What are keywords? Can keywords be used as identifiers?

24. What is the difference between 84L and 84 ?

PART –III

III Answer any 6 questions and question no. 33 is compulsory   6 x 3 =18

25. What are the characteristics of a computer?

26. Add : a) $-28_{10} + 19_{10}$ b) $25_{10} + 35_{10}$

27. Write down the interfaces and ports available in a computer.

28. What are the advantages and disadvantages of Time-Sharing features?

29. Differentiate Copy and Move

30. What is the difference between Assignment operator and equality operator?

31. What is meant by the term 'case sensitive' ? Is C++ case sensitive?

32. How relational and logical operators are related to one another?

33. Write a C++program to print the series : 1   2   4   7   ..... upto n terms.

PART –IV

IV Answer all the questions   5 x 5 =25

34. Discuss the various generations of computers.

(or)

   a)   Write the procedure to convert fractional Decimal to Binary

   b)   Convert the decimal number $(98.46)_{10}$ to Binary

35. Explain the fundamental gates with expression and truth table

(or)

Arrange the memory devices in ascending order based on the access time.

36. Explain the process management algorithms in Operating System

(or)

Write the procedure to create shortcut in Windows-OS

37. 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

(or)

What are the types of errors in C++ ?

38. Explain the syntax of switch statement in C++ with example program.

(or)

Write a program in C++ to find the sum of the series : $S = X^1 + X^2 + X^3 + X^4 + ... X^n$