Padasalai's Special Question Paper for Public Exam 2022

Model Question Paper 3
11th COMPUTER SCIENCE

TIME : 3.00 hrs   MARKS : 70

Instructions: (1) Check the question paper for fairness of printing.
(2) Use Blue or Black ink to write and underline and pencil to draw diagram.

Part - I

I. Note: (1) All Questions are compulsory   **15 X 1 = 15**
(2) Choose the most appropriate answer form the given four alternatives and write the option code and the corresponding

1. What was the component used in third generation computers?
   A) Vacuum tubes   B) Transistors   C) Integrated Circuits   D) Micro processors

2. Convert the decimal 948 to Hexadecimal
   A) 650   B) FACE   C) 3B4   D) 15B3

3. Which of the following is a CISC processor?
   A) Intel P6   B) AMD K6   C) Intel 386   D) Pentium IV

4. Which operating system more than one tasks executed concurrently?
   A) Single user   B) Multi user   C) Time sharing   D) Multi processing

5. Which Window version is called "My computer"?
   A) Windows XP   B) Windows 10   C) Windows 8   D) Windows 7

6. Which of the following operator is extraction operator of C++?
   A) >>   B) <<   C) <>   D) ^^

7. What will be the value stored in the variable S?
   N1=10;
   N2=20;
   S=N1++ + ++N2;
   A) 31   B) 32   C) 30   D) 29

8. The range of int is
   A) –127 to 128   B) 0 to 255   C) –128 to 127   D) –32768 to 32767

9. Which of the following is the exit control loop?
   A) do-while   B) for   C) while   D) if-else

10. Array subscripts is always starts with which number ?
    A)-1   B) 0   C) 2   D) 3

11. Which is a user defined data type?
    A) Object   B) Paradigm   C) Class   D) Data hiding

12. The member function defined within the class behave like
    A) inline functions   B) Non inline function   C) Outline function   D) Data function

13. Inheritance is process of creating new class from
    A) Base class   B) abstract   C) derived class   D) Function

14. Which operator cannot be overloaded?
    A) :: . sizeof ?:   B) : sizeof + *   C) + - * ?:   D) + . ? sizeof

15. Which one of the following tracks a user visits a website?
    A) spyware   B) cookies   C) worms   D) Trojans

Part - II

Answer any 6 in the following questions: **6x2=12**
Q.No : 24 is compulsory

16. What is a computer?

17. Write the 1's complement procedure.

18. What is instruction?

19. What are the different Operating Systems used in computer?

20. What is System Software?

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

22. What is Compound statement?

23. What is importance of void data type.

24. What is the syntax to declare two – dimensional array.

Part - III

Answer any 6 in the following questions: 6x3=18

   Q.No : 33 is compulsory

25. What are the characteristics of a computer?

26. Conversion of $(95)_{10}$ to Binary using the Sum of Powers of 2.

27. What is use of Cache memory?

28. What are multi user operating systems?

29. What are the advantages of using float data types?

30. What is built in functions?

31. Write a note on Abstraction.

32. What are called members?

33. What is operator overloading? Give some example of operators which can be overloaded.

Part - IV

Answer the following questions: 5x5=25

34. Discuss the various generations of computers. **(OR)**

    Convert $(693609)_{10}$ into hexadecimal number.

35. Explain the types of ROM. **(OR)**

    Suppose you want to solve the quadratic equation $ax2 + bx + c = 0$ by an algorithm.

    quadratic_solve (a, b, c)

    -- inputs : ?

    -- outputs: ?

    You intend to use the formula and you are prepared to handle only real number roots. Write a suitable specification.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

36. Write about Binary operators used in C++. **(OR)**

    What entry control loop? Explain any one of the entry control loop with suitable example.

37. Explain Nested if in C++. **(OR)**

    Explain Call by value method with suitable example.

38. Explain scope of variable with example. **(OR)**

    Explain the different types of inheritance

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