

Quarterly Examination - Model Question Paper 2- 2018-19

STD XI Computer Science

Time : 2.30 Hrs

Marks :70

Choose the Best Answer

15 x 1 = 15

1. Which is a computerized machine designed to respond to input received from its surroundings?
 - a) Computer
 - b) mobile phones
 - c) robots
 - d) all the above
2. $A + A = ?$
 - a) $2A$
 - b) A^2
 - c) A
 - d) 1
3. What is the ones complement of 110100101?
 - a) 11111111
 - b) 11110000
 - c) 001011010
 - d) 10101010
4. Sound waves close to 20HZ have a low pitch nad are called as frequencies
 - a) Treble
 - b) bass
 - c) ample
 - d) none of these
5. Softwares are categorised into how many categories?
 - a) 2
 - b) 4
 - c) 8
 - d) many
6. Which of the following in Ubuntu Operating system is used to view the options for devices installed?
 - a) Files
 - b) settings
 - c) dash
 - d) V Box_Gas_5.2.2
7. If you want to select multiple files / folders which short cut key is used?
 - a) Ctrl + shift
 - b) ctrl + Click
 - c) shift + click
 - d) ctrl + shift + click
8. Recursion must have at least ----- base case
 - a) 1
 - b) 2
 - c) 3
 - d) 4
9. After an algorithmic problem is decomposed into sub problems we can abstract the sub problems as
 - a) Pseudo code
 - b) flow chart
 - c) decomposition
 - d) function
10. How many basic building blocks construct an algorithm?
 - a) 3
 - b) 4
 - c) 5
 - d) 8
11. Which of the following is algorithmic in nature?
 - a) Assemble a bicycle
 - b) describe a bicycle
 - b) Explain how the bicycle works
 - d) label the parts of a bicycle
12. What value is stored in u and v

- - u, v = 10, 15

u , v := u + 10, V * 10

 - a) 10,100
 - b) 20, 150
 - c) 20, 25
 - d) 100, 150
13. How many levels of security management tasks are there?
 - a) 2
 - b) 3
 - c) 4
 - d) 5
14. What is the smallest size of data representation in a CD?
 - a) Blocks
 - b) sectors
 - c) pits
 - d) tracks
15. Which window helps the user to communicate with the application programme?
 - a) GUI window
 - b) document window
 - c) application window
 - d) program window

Answer any six of the following . Question No 17 is Compulsory

6 X 2 = 12

16. What are non impact printers?
 17. What is signed plus magnitude representation?

(OR)

Give the truth table of XNOR gate

18. What is meant by memory access time?
 19. What is meant by fault tolerance?
 20. Explain the use of file extension?
 21. Differentiate hibernate and sleep options
 22. What is meant by initial state and final state?
 23. How do conditional statement and iterative statement differ?
 24. Define a loop invariant

Answer any six of the following . Question No 28 is Compulsory

6 X 3 = 18

25. Write short notes on a) Light pen b) finger scanner
 26. Convert the following
 a) 1101011001 into its hexa decimal
 b) 101101 into its decimal
 c) AC3 into its binary
 27. What is HDMI?
 28. Explain the read and write operations of a processor

(OR)

List some of the main purpose of an operating system

29. Write a note on the icons in windows operating system
 30. Write a note on the different mouse actions
 31. For the given pseudo code draw a flow chart

Start

S = 0

N = 1

When $N \leq 100$ then do

Read a

Sum = Sum + a

N = N + 1

Print Sum

End

32. Write an algorithm to find the minimum of three numbers
 33. Define the factorial of natural numbers recursively

Answer the following questions

5 X 5 = 25

34. Design an iterative algorithm to compute a^n

(OR)

Explain recursive problem solving

35. Write a note on case analysis.

(OR)

Define a function to double a number in two ways

a) $N + N$

b) $2 \times N$

36. Explain the components of a computer with neat diagram

(OR)

Explain concepts of distributed operating system

37. How AND & OR gate can be realised using NAND and NOR gates

(OR)

Explain about the different types of ROM

38. Write the procedure to create, rename, delete and save a file in Ubuntu operating system

(OR)

Do the following

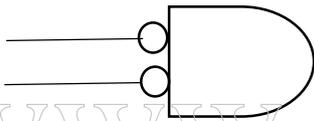
a) Find the binary using sum of powers method - 96

b) Convert 32.48 into its binary

c) Add - 14 - 12

d) Subtract 11010001 - 1101011

e) Identify the gate and write the Boolean expression



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