

1. Which of the following most accurately describes "multiple inheritances"?

A. When two classes inherit from each other.

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B. When a child class has two or more parent classes.

C. When a base class has two or more derived classes.

D. When a child class has both an "is a" and a "has a" relationship with its parent class.

Answer: b)

2. The logic circuit of binary adder which is used to add two 4-bits binary numbers requires _____ half adder (s) and _____ full adder(s).

A. 1, 3

B. 3, 1

C. 2, 2

D. 4, 0

Answer: a)

3. _____ refers to the amount of time required to position the read - write head of a hard disk on appropriate sector.

A. Seek time

B. Rotational latency

C. Access time

D. Load time

Answer: b)

4. Anti-aliasing is important to improve the readability of text. It deals with the:

A. Spacing between two individual characters.

B. Spacing of a group of characters.

C. Underlining of letters.

D. Elimination of "jaggies".

Answer: d)

5. Assume X and Y are non-zero positive integers. Consider the following pseudocode fragment: while X != Y do if X gt y then X = X - Y else Y = Y - X endif endwhile print (X) What is the code doing?

A. It computes the LCM of two numbers.

B. It divides the largest numbers by the smaller.

C. It finds the smaller of two numbers.

D. It computes the GCD of two numbers.

Answer: d)

6. How many gate (S) would be required to implement the following Boolean expression after simplification? Expression: $AC + ABC$

A. 1

B. 3

C. 2

D. 4

Answer: a)

7. To declare the version of XML, the correct syntax is:

A. ? xml version ='1.0'/

B. ? xml version ="1.0"/

C. * xml version ='1.0'/

D. / xml version ='1.0'/

Answer: b)

8. A multimedia project is said to be _____ and user-interactive when users are given navigational control.

A. Hypertext

B. Non-linear

C. Linear

D. Secure

Answer: b)

9. On which of the following storage media, storage of information is organized as a single continuous spiral groove?

A. Ram

B. Floppy disk

C. Hard disk

D. CD-ROM

Answer: d)

10. The addressing mode used in an instruction of the form ADD X, Y is:

A. Absolute

B. Indirect

C. Immediate

D. Index

Answer: d)

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11. The problem of indefinite blockage of low-priority jobs in general priority scheduling algorithm can be solved using:

A. Dirty bit

B. Compaction

C. Aging

D. Swapping

Answer: c)

12. What is garbage collection in the context of Java?

A. The operating system periodically deletes all of the Java files available on the system.

B. When all references to an object are gone, and then the memory used by the object is automatically reclaimed.

C. Any java package imported in a program and not being used is automatically deleted.

D. The java virtual machine (JVM) checks the output of any java program and deleted anything that does not make sense at all.

Answer: b)

13. Which of the following represents the life-cycle of software development?

A. Analysis -Design - Coding - testing - operation and maintenance

B. Analysis - Design - Coding - operation and maintenance - testing

C. Design - Analysis -Coding - testing - operation and maintenance

D. Design - Analysis -Coding - operation and maintenance – testing

Answer: a)

14. In a relational database model, cardinality of a relation means

A. The number of tuples

B. The number of tables

C. The number of attributes

D. The number of constraints

Answer: a)

15. The 10 base 5 cabling is also known as _____.

A. Thick Ethernet

B. Gigabit Ethernet

- C. Thin Ethernet
- D. Fast Ethernet

Answer: a)

16. What is the bit rate for transmitting uncompressed 800 X 600 pixel color frame with 8 bits/pixel at 40 frames / second ?

- A. 2.4 mbps
- B. 153.6 mbps
- C. 15.36 mbps
- D. 1536 mbps

Answer: b)

17. What is the length of an IP address in bytes (pre-IPv6)?

- A. 1
- B. 4
- C. 2
- D. 8

Answer: b)

18. Program counter contents indicate:

- A. The time elapsed since execution begins.
- B. The count of programs being executed after switching the power ON.
- C. The address where next instruction is stored.
- D. The time needed to execute a program.

Answer: c)

19. Which of the following is the most appropriate format for graphics that are to be embedded within an internet document?

- A. BMP
- B. GIF
- C. TIFF

D. HTML

Answer: b)

20. The technology that stores only the essential instructions on a microprocessor chip and thus enhances its speed is referred to as:

A. CISC

B. SIMD

C. RISC

D. MIMD

Answer: c)

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21. Ten signals, each requiring 3000 Hz, are multiplexed onto a single channel using FDM. How much minimum bandwidth is required for the multiplexed channel? Assume that the guard bands are 300 Hz wide.

A. 30,000

B. 33,000

C. 32,700

D. 33,700

Answer: c)

22. In which addressing mode, the operand is given explicitly in the instruction (Example instruction: ADD R4, #3)

A. Absolute mode

B. Register indirect mode.

C. Immediate mode

D. Based Indexed mode.

Answer: c)

23. In relational databases, the natural join of two tables is:

A. Combination of Union and filtered Cartesian product.

B. Combination of projection and filtered Cartesian product.

- C. Combination of selection and filtered Cartesian product.
- D. Cartesian product always.

Answer: b)

24. Which of the following memory improves the speed of execution of a program?

- A. Primary Memory
- B. Cache Memory
- C. Secondary Memory
- D. Virtual Memory

Answer: b)

25. Which of the following devices understands the format and contents of the data and translate message from one format to another?

- A. Hub
- B. Router
- C. Switch
- D. Gateway

Answer: d)

26. Buying and selling goods over the internet is called:

- A. Hyper-marketing
- B. E-Commerce
- C. Cyber-selling
- D. Euro-Conversion

Answer: b)

27. Mechanism that is used to convert domain name into I address is known as _____.

- A. URL
- B. DNS

C. FTP

D. HTTP

Answer: b)

28. An analog signal carries 4 bits in each signal unit. If 1000 signal units are sent per second, then baud rate and bit rate of the signal are _____ and _____.

A. 1000 bauds / sec, 500 bps

B. 2000 bauds / sec, 1000 bps

C. 4000 bauds / sec, 1000 bps

D. 1000 bauds / sec, 4000 bps

Answer: d)

29. Which of the following data structures is most suitable for evaluating postfix expressions?

A. Stacks

B. Queue

C. Linked list

D. Tree

Answer: a)

30. The complexity of linear search algorithm is:

A. $O(n)$

B. $O(n*n)$

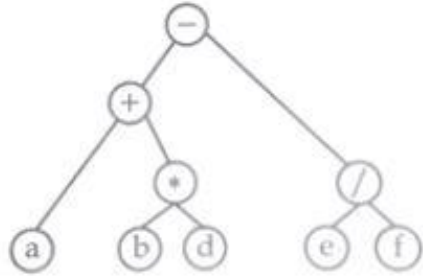
C. $O(\log n)$

D. $O(n \log n)$

Answer: a)

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31. For the following binary tree, in order traversal yields the expression:



- A. $a + bd^* - ef/$
- B. $a + b*d - e/f$
- C. $abdexf^* / + -$
- D. $- + * / abdef$

Answer: b)

32. Given that a 22-inch monitor with an aspect ratio of 16: 9 has a monitor resolution of 1920 X 1080, what is the width of the monitor?

- A. 8.53 inches
- B. 19.17 inches
- C. 10.79 inches
- D. 22 inches

Answer: b)

33. The number of bits require to represent decimal number 4096 in binary form is _____.

- A. 10
- B. 13
- C. 12
- D. 16

Answer: b)

34. In the context of Visual basic, multiple controls of the same type can be grouped into an array, in the same manner as a collection of data items. Such a grouping is known as:

- A. Primary array

- B. An integer array
- C. Secondary array
- D. Control array

Answer: d)

35. What is the octal equivalent of the hexadecimal number 132A?

- A. 11450
- B. 46250
- C. 11452
- D. 46252

Answer: c)

36. Consider the following code segment:

```
if (Y<0)
{X.-X;Y.-Y;}
Z = 0;
while (Y>0)
{Z=Z+X;Y=- 1;}
```

Assume that X, Y and Z are integer variables, and that X and Y have been initialized. Which of the following best describes what this code segment does?

- A. Sets Z to be the sum $X + Y$
- B. Sets Z to be the value of Y
- C. Sets Z to be the absolute value of Y
- D. Sets Z to be the product $X * Y$

Answer: d)

37. The five items P, Q, R, S and T are pushed in a stack, one after the other starting from P. The stack is popped four times and each element is inserted in a queue. Then two elements are deleted from the queue and pushed back on the stack. Now one item is popped from the stack. The popped item is:

- A. P
- B. R

C. Q

D. S

Answer: d)

38. Conceptual level, internal level and External level are three components of the three-level RDBMS architecture. Which of the following is not of the conceptual level?

A. Entities, attributes, relationships

B. Semantic information

C. Constraints

D. Storage dependent details

Answer: d)

39. Consider two database relations R and S having 3 tuples in R and 2 tuples in S. what is the maximum number of tuples that could appear in the natural join of R and S?

A. 2

B. 5

C. 3

D. 6

Answer: d)

40. When an ASP.NET file is placed on an IIS sever and viewed through a browser, the resulting HTML Page contains?

A. All ASP.NET code

B. As much ASP.NET code as is in the ASP.NET file

C. all HTML code

D. A mix of ASP.NET and HTML code

Answer: c)

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41. What result set is returned from the following SQL query? Select customer_name, telephone From customers Where city in ('Jaipur', 'Delhi', 'Agra')

- A. The customer_name and telephone of all customers.
- B. The customer_name and telephone of all customers living in Jaipur, Delhi and Agra.
- C. The customer_name and telephone of all customers Living in either Jaipur, Delhi or Agra.
- D. The customer_name and telephone of all customers who are not living in Jaipur, Delhi or Agra.

Answer: c)

42. Which of the following transmission media works on the principle of total internal reflection?

- A. Shielded twisted pair cable
- B. Coaxial cable
- C. Unshielded twisted pair cable
- D. Optical fiber cable.

Answer: d)

43. Semaphores are used to solve the problem of _____.

- A. Race Condition
- B. The belady's problem
- C. Process synchronization
- D. mutual exclusion

Answer: d)

44. An entity set that does not have sufficient attributes to form a key is termed as:

- A. Strong entity set
- B. Simple entity set
- C. Weak entity set

D. Primary entity set

Answer: c)

45. A combinational logic circuit that is used when it is desired to send data from two or more source through a single transmission line is known as _____.

A. Encoder

B. Multiplexer

C. Decoder

D. Demultiplexer

Answer: b)

46. A condition that is caused by run-time error in a computer program is known as:

A. Syntax error

B. Fault

C. Semantic error

D. Exception

Answer: d)

47. A register in the microprocessor that keeps track of the answer or result of any arithmetic or logic operation is the _____.

A. Stack pointer

B. Instruction pointer

C. Program counter

D. Accumulator

Answer: d)

48. Which of the following is true to define a variable for ASP?

A. Dim

B. Sets

C. \$

D. Var

Answer: a)

49. _____ is an intermediate storage area used for data processing during the extract, transform and load process of data warehousing.

A. Buffer

B. Virtual memory

C. Staging area

D. inter-storage area

Answer: c)

50. Which of the following Java statements declare and allocate a 2-dimensional array of integers with four rows and five columns?

A. `int array [4][5];`

B. `int array [][] = = new int [4][5];`

C. `int array [5][4];`

D. `int array [][]= new int [5][4]`

Answer: b)