

Previous Year Questions

KVS PGT Computer Science 2017

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

- A. When two classes inherit from each other.
- 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.

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

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

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".

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.

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

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' /

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

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

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

- A. Absolute
- B. Indirect
- C. Immediate
- D. Index

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

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.

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

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

15. The 10 base 5 cabling is also known as

- A. Thick Ethernet
- B. Gigabit Ethernet
- C. Thin Ethernet
- D. Fast Ethernet

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

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

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

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.

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

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

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

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.

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

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

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

- A. URL
- B. DNS
- C. FTP
- D. HTTP

25. 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

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

- A. Stacks
- B. Queue
- C. Linked list
- D. Tree

27. The complexity of linear search algorithm is:

- A. $O(n)$
- B. $O(n*n)$
- C. $O(\log n)$
- D. $O(n \log n)$

28. 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

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

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

30. 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

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

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

32. 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

33. 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

34. 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

35. 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

36. 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.

37. 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.

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

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

39. 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

40. 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

41. 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

42. 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

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

- A. Dim
- B. Sets
- C. \$

D. Var

44. _____ 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

45. 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]

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