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- 1 The order of an internal node in a B+ tree index is the maximum number of children it can have. Suppose that a child pointer takes 6 bytes, the search field value takes 14 bytes, and the block size is 512 bytes. What is the order of the internal node?
- A) 24
- B) 25
- C) 26
- D) 27
- Answer: (C) 2 The Boolean function x, y, + xy + x, y
- A) $x_1 + y_2$
- B) x + y
- C) x + y,
- D) x, + y
- Answer: (D)
- 3 In an MxN matrix such that all non-zero entries are covered in a rows and b $\underline{\text{columns}}$. $\underline{\text{Then the}}$ maximum number of non-zero entries, such that no two are on the same row or column, is
- A) £ a + b
- B) £ max {a, b}
- C) £ min {M-a, N-b} D) £ min $\{a, b\}$
- Answer: (A)

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```
4 The relation scheme Student Performance (name,
courseNo, rollNo, grade) has the following functional
dependencies:
```

A) name, courseNo -> grade

B) rollNo, courseNo -> grade C) name -> rollNo

D) rollNo -> name

The highest normal form of this relation scheme is

Answer: (A)

5 The minimum number of page frames that must be allocated to a running process in a virtual memory environment is determined by

- A) the instruction set architecture
- B) page size
- C) physical memory size
- D) number of processes in memory

Answer: (D)

6 Let G be a simple graph with 20 vertices and 100 edges. The size of the minimum vertex cover of G is 8. Then, the size of the maximum independent set of G is

A) 12

B) 8

C) Less than 8

D) More than 12

Answer: (A)

7 What does the following algorithm approximate? (Assume $m > 1, \hat{I} > 0$).

x = my-i; while $(x - y > \hat{I})$ ${x = (x + y) / 2}$ y = m/x; print (x); A) log m

B) m²

C) $m^{1/2}$

D) m^{1/3}

Answer: (C)

8 Consider the following C program

main () { int x, y, m, n; scanf ("%d %d", &x, &y); /* Assume x > 0 and y > 0 * /m = x; n = y;while (m! = n) $\{ if (m > n) \}$ m = m - n;else n = n - m;

printf("%d",n); } The program computes

A) x + y, using repeated subtraction

- B) x mod y using repeated subtraction
- C) the greatest common divisor of x and y
- D) the least common multiple of x and y

Answer: (C)

9 The best data structure to check whether an arithmetic expression has balanced parentheses is a

A) aueue

B) stack

C) tree

D) list

Answer: (B)

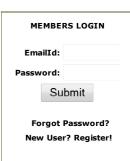
10 A Priority-Queue is implemented as a Max-Heap. Initially, it has 5 elements. The level-order traversal of the heap is given below: 10, 8,5,3,2 Two new elements 1 and 7 are inserted in the heap in that order. The level-order traversal of the heap after the insertion of the elements is

A) 10,8,7,5,3,2,1 B) 10,8,7,2,3,1,5 C) 10,8,7,1,2,3,5 D) 10,8,7,3,2,1,5 Answer: (D)

11 An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would

A) 255.255.0.0





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2 of 4 01-Oct-11 8:24 PM B) 255.255.64.0 C) 255.255.128.0 D) 255.255.252.0 Answer: (D) 12 Suppose the \underline{round} trip propagation delay for a 10 Mbps Ethernet having $\underline{48\text{-bit}}$ jamming signal is 46.4 ms. The minimum frame size is: B) 416 C) 464 D) 512 Answer: (C) 13 The following numbers are inserted into an empty binary search tree in the given order: 10, 1, 3, 5, 15, 12, 16. What is the height of the binary search tree (the height is the maximum distance of a leaf node from the root)? B) 3 C) 4 D) 6 Answer: (B) 14 Consider the following C function: int f (int n) { static int i = 1: if (n >= 5) return n; n = n + i; i ++: return f (n); The value returned by f(1) is A) 5 B) 6 c) 7 D) 8 Answer: (C)

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15 The minimum number of page frames that must be allocated to a running process in a virtual memory environment is determined by

- A) the instruction set architecture
- B) page size
- C) physical memory size
- D) number of processes in memory

Answer: (D)

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