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## Computer Science Engineering

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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)  $x, + y,$
- 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 columns. Then the maximum number of non-zero entries, such that no two are on the same row or column, is**

- A)  $\text{£ } a + b$
- B)  $\text{£ } \max \{a, b\}$
- C)  $\text{£ } \min \{M-a, N-b\}$
- D)  $\text{£ } \min \{a, b\}$

**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  $m > 1, \hat{1} > 0$ ).**

```
x = m;
y-i;
while (x - y >  $\hat{1}$ )
{ x = (x + y) / 2 ;
y = m/x ;
}
```

**print (x) ;**

- A) log m
- B)  $m^2$
- 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)  $x \text{ mod } y$  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) queue
- 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 be**

- A) 255.255.0.0

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- B) 255.255.64.0  
C) 255.255.128.0  
D) 255.255.252.0

**Answer : (D)**

**12** Suppose the round trip propagation delay for a 10 Mbps Ethernet having 48-bit jamming signal is 46.4 ms. The minimum frame size is:

- A) 94  
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)?

- A) 2  
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)**

**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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