



Placement Papers: Cisco Paper 2009

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COMPUTER AWARENESS TEST

1. In the command scanf, h is used for Ans: Short int
2. A process is defined as Ans: Program in execution
3. A thread is Ans: Detachable unit of executable code
4. What is the advantage of Win NT over Win 95 Ans: Robust and secure
5. How is memory management done in Win95 Ans: Through paging and segmentation
6. What is meant by polymorphism Ans: Redefinition of a base class method in a derived class
7. What is the essential feature of inheritance Ans: All properties of existing class are derived
8. What does the protocol FTP do Ans: Transfer a file b/w stations with user authentication
9. In the transport layer, TCP is what type of protocol Ans: Connection oriented
10. Why is a gateway used Ans: To connect incompatible networks
11. How is linked list implemented Ans: By referential structures
12. What method is used in Win95 in multitasking Ans: Non preemptive check
13. What is meant by functional dependency
14. What is a semaphore Ans: A method synchronization of multiple processes
15. What is the precedence order from high to low, of the symbols () + +/Ans: (), + +,/
16. Preorder of $A * (B + C)/D - G$ Ans: * + ABC/-DG
17. In unix 'ls' stores contents in Ans: Inode block
18. B-tree (failure nodes at same level)
19. Dense index (index record appears for every search-key in file)
20. What is the efficiency of merge sort Ans: $O(n \log n)$
21. A program on swaping (10, 5) was given (candidate cannot recollect)
22. In which layer are routers used Ans: In network layer

23. In which layer are packets formed (in network layer)
24. heap (priority queue)
25. copy constructor (constant reference)
26. Which of the following sorting algorithm has average sorting behavior--Bubble sort, merge sort, heap sort, exchange sort Ans: Heap sort
27. In binary search tree which traversal is used for getting ascending order values--Inorder, post order, preorder Ans: Inorder
28. What are device drivers used for Ans: To provide software for enabling the hardware
29. Irrelevant to unix command (getty)
30. What is fork command in unix Ans: System call used to create process
31. What is make command in unix Ans: Used for creation of more than one file
32. In unix. Profile contains Ans: Start up program
33. In unix echo is used for (answer C)

Quantitative Section

1. In a class composed of x girls and y boys what part of the class is composed of girls
 - a. $y/(x + y)$
 - b. x/xy
 - c. $x/(x + y)$
 - d. y/xy

Answer: c

2. What is the maximum number of half-pint bottles of cream that can be filled with a 4-gallon can of cream (2 pt. = 1 qt. And 4 qt. = 1 gal)
 - a. 16
 - b. 24
 - c. 30
 - d. 64

Answer: d

3. If the operation, \wedge is defined by the equation $x^y = 2x + y$, what is the value of a in $2^a = a^3$

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- a. 0
- b. 1
- c. -1
- d. 4

Answer: b

4. A coffee shop blends 2 kinds of coffee, putting in 2 parts of a 33p. a gm. Grade to 1 part of a 24p. a gm. If the mixture is changed to 1 part of the 33p. a gm. To 2 parts of the less expensive grade, how much will the shop save in blending 100 gms.

- a. Rs. 90
- b. Rs. 1.00
- c. Rs. 3.00
- d. Rs. 8.00

Answer: c

5. There are 200 questions on a 3 hr examination. Among these questions are 50 mathematics problems. It is suggested that twice as much time be spent on each maths problem as for each other question. How many minutes should be spent on mathematics problems

- a. 36
- b. 72
- c. 60
- d. 100

Answer: b

6. In a group of 15, 7 have studied Latin, 8 have studied Greek, and 3 have not studied either. How many of these studied both Latin and Greek

- a. 0
- b. 3
- c. 4
- d. 5

Answer: b

7. If $13 = 13w/(1 - w)$, then $(2w)^2 =$

- a. $1/4$
- b. $1/2$
- c. 1
- d. 2

Answer: c

8. If a and b are positive integers and $(a-b)/3.5 = 4/7$, then

- a. $b < a$
- b. $b > a$
- c. $b = a$
- d. $b \geq a$

Answer: a

9. In June a baseball team that played 60 games had won 30% of its game played. After a phenomenal winning streak this team raised its average to 50%. How many games must the team have won in a row to attain this average?

- a. 12
- b. 20
- c. 24
- d. 30

Answer: c

10. M men agree to purchase a gift for Rs. D. If three men drop out how much more will each have to contribute towards the purchase of the gift/

- a. $D/(M - 3)$
- b. $MD/3$
- c. $M/(D - 3)$
- d. $3D/(M^2 - 3M)$

Answer: d

11. A company contracts to paint 3 houses. Mr. Brown can paint a house in 6 days while Mr. Black would take 8 days and Mr. Blue 12 days. After 8 days Mr. Brown goes on vacation and Mr. Black begins to work for a period of 6 days. How many days will it take Mr. Blue to complete the contract?

- a. 7
- b. 8
- c. 11
- d. 12

Answer: c

12. 2 hours after a freight train leaves Delhi a passenger train leaves the same station travelling in the same direction at an average speed of 16 km/hr. After travelling 4 hrs the passenger train overtakes the freight train. The average speed of the freight train was?

- a. 30
- b. 40
- c. 58
- d. 60

Answer: b

13. If $9x - 3y = 12$ and $3x - 5y = 7$ then $6x - 2y = ?$

- a. -5
- b. 4
- c. 2
- d. 8

Answer: d

Analytical Ability

The office staff of XYZ corporation presently consists of three bookeepers--A, B, C and 5 secretaries D, E, F, G, H. The management is planning to open a new office in another city using 2 bookeepers and 3 secretaries of the present staff. To do so they plan to seperate certain individuals who don't function well together. The following guidelines were established to set up the new office

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Bookeepers A and C are constantly finding fault with one another and should not be sent together to the new office as a team

C and E function well alone but not as a team, they should be seperated

D and G have not been on speaking terms and shouldn't go together

Since D and F have been competing for promotion they shouldn't be a team

1. If A is to be moved as one of the bookeepers, which of the following cannot be a possible working unit.
 - a. ABDEH
 - b. ABDGH
 - c. ABEFH
 - d. ABEGH

Answer: b

2. If C and F are moved to the new office, how many combinations are possible
 - a. 1
 - b. 2
 - c. 3
 - d. 4

Answer: a

3. If C is sent to the new office, which member of the staff cannot go with C
 - a. B
 - b. D
 - c. F
 - d. G

Answer: b

4. Under the guidelines developed, which of the following must go to the new office
 - a. B
 - b. D
 - c. E

d. G

Answer: a

5. If D goes to the new office, which of the following is/are true

- a. C cannot go
- b. A cannot go
- c. H must also go

Which is true?

- a. I only
- b. II only
- c. I and II only
- d. I and III only

Answer: d