Mphasis Technical Questions

1. How is linked list implemented
Ans. By referential structures
2. What is meant by functional dependency
3. What is a semaphore
Ans. A method synchronization of multiple processes
4. What is the precedence order from high to low ,of the symbols () $++$ /
Ans.(), ++,/

5. Preorder of A*(B+C)/D-G

Ans.*+ABC/-DG
6. B-tree (failure nodes at same level)
7. Dense index (index record appears for every search -key in file)
8. What is the efficiency of merge sort
Ans. O(n log n)
9. program on swapping (10,5)was given (candidate cannot recollect)
10. Which of the following sorting algorithem has average sorting behavior Bubble sort, merge sort, heap sort, exchange sort
Ans. Heap sort

11. In binary search tree which traversal is used for getting ascending order valuesInorder ,post order,preorder
Ans. Inorder
12. What are device drivers used for
Ans. To provide software for enabling the hardware
13. Irrevalent to unix command (getty)
14. What is fork command in unix
Ans. System call used to create process
15. What is make command in Unix

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Ans. Used for creation of more than one file
16. In unix .profile contains
Ans. Start up program
17. In unix echo is used for (answer C)
18. 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/(M2-3M)
Ans. D

19. 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
Ans.C
20. 2 hours after a freight train leaves Delhi a passenger train leaves the same station traveling in the same direction at an average speed of 16 km/hr. After traveling 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
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Ans. B

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

- A.-5
- B. 4
- C. 2
- D. 8

Ans. D

22. The office staff of XYZ corporation presently consists of three bookkeepers--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 bookkeepers and 3 secretaries of the present staff . To do so they plan to separate certain individuals who don't function well together. The following guidelines were established to set up the new office

1. Bookkeepers A and C are constantly finding fault with one another and should not be sent together to the new office as a team
II. C and E function well alone but not as a team , they should be seperated
III. D and G have not been on speaking terms and shouldn't go together
IV Since D and F have been competing for promotion they shouldn't be a team
23. 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
Ans.B

24. If C and F are moved to the new office, how many combinations are possible
A.1
B.2
C.3
D.4
Ans.A
25. If C is sent to the new office, which member of the staff cannot go with C
25. If C is sent to the new office, which member of the staff cannot go with C A.B
A.B
A.B B.D

26. Under the guidelines developed, which of the following must go to the new office
A.B
B.D
C.E
D.G
Ans.A
27. If D goes to the new office, which of the following is/are true
I.C cannot go
II.A cannot go
III.H must also go

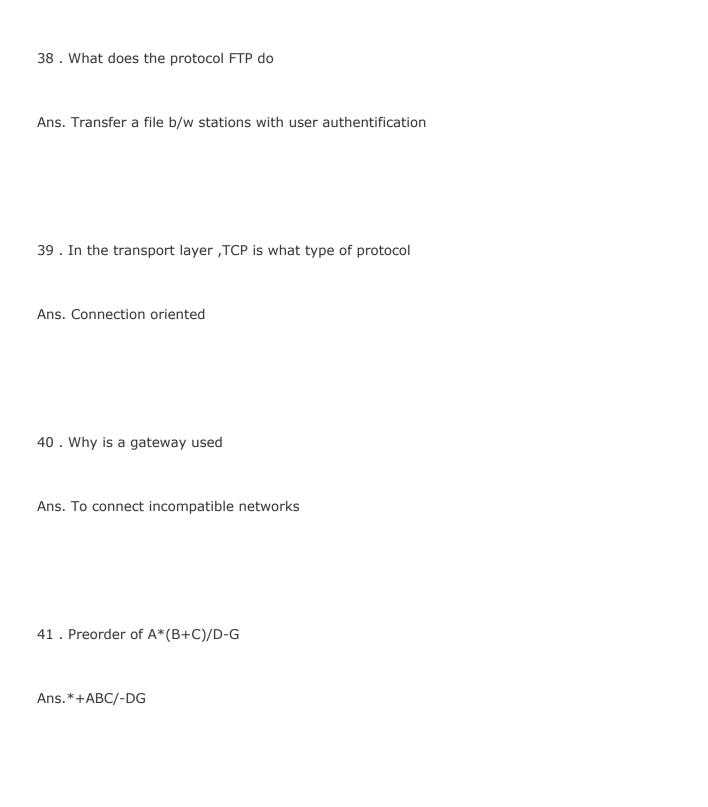
A.I only
B.II only
C.I and II only
D.I and III only
Ans.D
28. After months of talent searching for an administrative assistant to the president of the college the field of applicants has been narrowed down to 5A, B, C, D, E .It was announced that the finalist would be chosen after a series of all-day group personal interviews were held. The examining committee agreed upon the following procedure
I.The interviews will be held once a week
II.3 candidates will appear at any all-day interview session
III.Each candidate will appear at least once
IV.If it becomes necessary to call applicants for additional interviews, no more 1 such applicant should be asked to appear the next week

V.Because of a detail in the written applications, it was agreed that whenever candidate B appears, A should also be present.
VI.Because of travel difficulties it was agreed that C will appear for only 1 interview.
29. At the first interview the following candidates appear A,B,D.Which of the follwing combinations can be called for the interview to be held next week.
A.BCD
B.CDE
C.ABE
D.ABC
Ans.B
30. Which of the following is a possible sequence of combinations for interviews in 2 successive weeks
A.ABC;BDE

B.ABD;ABE
C.ADE;ABC
D.BDE;ACD
Ans.C
31. If A ,B and D appear for the interview and D is called for additional interview the following week,which 2 candidates may be asked to appear with D?
I. A
II B
III.C
IV.E
A.I and II

B.I and III only
C.II and III only
D.III and IV only
Ans.D
32. Which of the following correctly state's the procedure followed by the search committee
I.After the second interview all applicants have appeared at least once
II.The committee sees each applicant a second time
III.If a third session, it is possible for all applicants to appear at least twice
A.I only
B.II only

Ans. D
35. On Aug 15th with the temperature at 97 degrees Fahrenheit it begins to rain at 1 PM. What is the minimum number of lines on which service will be affected?
(A) 2
(B) 3
(C) 4
(D) 5
36. What is meant by polymorphism
Ans. Redfinition of a base class method in a derived class
37 . What is the essential feature of inheritance
Ans. All properties of existing class are derived



42. Dense index (index record appers for every search -key in file)
43. A program on swaping (10,5)was given (candidate cannot recollect)
44. 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
Ans.B
45. If $13 = 13w/(1-w)$, then $(2w)2 =$
A.1/4

R	1	/	7
о.	Т	/	_

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

(A)
$$b < a$$

(B)
$$b > a$$

(D)
$$b >= a$$

Ans. A

team have won in a row to attain this average?
A. 12
B. 20
C. 24
D. 30
Ans. C
48 . 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/(M2-3M)

47 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

Ans. D
49 . At the first interview the following candidates appear A,B,D.Which of the follwing combinations can be called for the interview to be held next week.
A.BCD
B.CDE
C.ABE
D.ABC
Ans.B
50. Which of the following is not permitted under the rules as stated.
(A) A brown male marrying his fathers sister
(B) A red female marrying her mothers brother
© A widower marrying his wifes sister

(D) A widow marrying her divorced daughters ex-husband
Ans. B
51. If widowers and divorced males retained their group they had upon marrying which of the following would be permissible (Assume that no previous marriage occurred)
(A) A woman marrying her dead sisters husband
(B) A woman marrying her divorced daughters ex-husband
© A widower marrying his brothers daughter
(D) A woman marrying her mothers brother who is a widower.
Ans. D
52. Irrevalent to unix command (getty)
53. What is fork command in unix

Ans. System call used to create process
54. What is make command in unix
Ans. Used forcreation of more than one file
55. In unix .profile contains
Ans. Start up program