



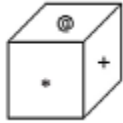
- How many pairs of letters are there in the word "CASTRAPHONE" which have as many letters between them in the word as in the alphabet?
a) 3 b) 4 c) 5 d) 6
- ABCDEFGHIJKLMNOPQRSTUVWXYZ.
Which letter in this alphabet is the eighth letter to the right of the letter and which is tenth letter to the left of the last but one letter of the alphabet?
a) X b) W c) I d) H
- How many pairs of letters in the word 'CHAIRS' have as many letters between them in the word as in the alphabet?
a) 2 b) 3 c) 1 d) 4
- How many meaningful English words can be formed with the letters ESRO using each letter only once in each word?
a) None b) One c) Two d) Three
- Arrange these words in alphabetical order and tick the one that comes last
A. Abandon
B. Actuate
C. Accumulate
D. Acquit
E. Achieve
a) Actuate b) Accumulate c) Acquit d) Achieve
- What should come next in the following letter sequence?
A A B A B C A B C D A B C D E A B C D
a) A b) E c) C d) B
- SLUAYJVEIONQGZBDRH
What will come in place of question (?) mark in the following series:
LA UJ YI EG?
a) ZH b) IB c) NR d) QH

2. Tixo is a yellow.
- a) Only (1) conclusion follows
 - b) Only (2) conclusion follows
 - c) Either (1) or (2) follows
 - d) Neither (1) nor (2) follows**
 - e) Both (1) and (2) follow
14. Statements: Some ants parrots. All the parrots are apples.
Conclusions:
- 1. All the apples are parrots.
 - 2. Some ants are apples.
 - a) Only (1) conclusion follows
 - b) Only (2) conclusion follows**
 - c) Either (1) or (2) follows
 - d) Neither (1) nor (2) follows
 - e) Both (1) and (2) follow
15. Statements: Some papers are pens. All the pencils are pens.
Conclusions:
- 1. Some pens are pencils.
 - 2. Some pens are papers.
 - a) Only (1) conclusion follows
 - b) Only (2) conclusion follows
 - c) Either (1) or (2) follows
 - d) Neither (1) nor (2) follows
 - e) Both (1) and (2) follow**
16. Statements: All the actors are girls. All the girls are beautiful.
Conclusions:
- 1. All the actors are beautiful.
 - 2. Some girls are actors.
 - a) Only (1) conclusion follows
 - b) Only (2) conclusion follows
 - c) Either (1) or (2) follows
 - d) Neither (1) nor (2) follows
 - e) Both (1) and (2) follow**
17. Statements: All the windows are doors. No door is a wall.
Conclusions:
- 1. Some windows are walls.

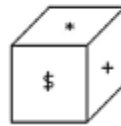
2. No wall is a door.
a) Only (1) conclusion follows
b) Only (2) conclusion follows
c) Either (1) or (2) follows
d) Neither (1) nor (2) follows
e) Both (1) and (2) follow
18. Statements: All cups are books. All books are shirts.
Conclusions:
1. Some cups are not shirts.
2. Some shirts are cups.
a) Only (1) conclusion follows
b) Only (2) conclusion follows
c) Either (1) or (2) follows
d) Neither (1) nor (2) follows
e) Both (1) and (2) follow
19. Statements: Some cows are crows. Some crows are elephants.
Conclusions:
1. Some cows are elephants.
2. All crows are elephants.
a) Only (1) conclusion follows
b) Only (2) conclusion follows
c) Either (1) or (2) follows
d) Neither (1) nor (2) follows
e) Both (1) and (2) follow
20. Statements: All the pencils are pens. All the pens are Inks.
Conclusions:
1. All the pencils are inks.
2. Some Inks are pencils.
a) Only (1) conclusion follows
b) Only (2) conclusion follows
c) Either (1) or (2) follows
d) Neither (1) nor (2) follows
e) Both (1) and (2) follow
21. Which symbol will be on the face opposite to the face with symbol*?



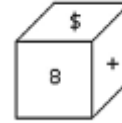
a) @



b) \$



c) 8

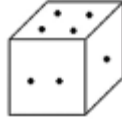


d) +

22. Two positions of dice are shown below. How many points will appear on the opposite to the face containing 5 points?



a) 3

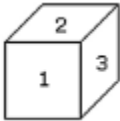


b) 1

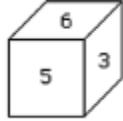
c) 2

d) 4

23. Which digit will appear on the face opposite to the face with number 4?



a) 3

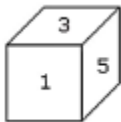


b) 5

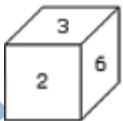
c) 6

d) 2/3

24. Two positions of a dice are shown below. Which number will appear on the face opposite to the face with the number 5?



a) 2/6

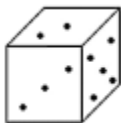


b) 2

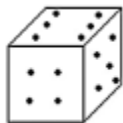
c) 6

d) 4

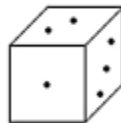
25. How many points will be on the face opposite to In face which contains 2 points?



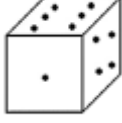
a) 1



b) 5



c) 4



d) 6

26. Look at this series: 2, 1, (1/2), (1/4),... What number should come next?

a) (1/3)

b) (1/8)

c) (2/8)

d) (1/16)

27. Look at this series: 7, 10, 8, 11, 9, 12,... What number should come next?

a) 7

b) 10

c) 12

d) 13

28. Look at this series: 36, 34, 30, 28, 24,... What number should come next?

- a) 20 **b) 22** c) 23 d) 26
29. Look at this series: 22, 21, 23, 22, 24, 23,... What number should come next?
a) 22 b) 24 **c) 25** d) 26
30. Look at this series: 53, 53, 40, 40, 27, 27,... What number should come next?
a) 12 **b) 14** c) 27 d) 53
31. Look at this series: 21, 9, 21, 11, 21, 13, 21,... What number should come next?
a) 14 **b) 15** c) 21 d) 23
32. Look at this series: 58, 52, 46, 40, 34,... What number should come next?
a) 26 **b) 28** c) 30 d) 32
33. Look at this series: 3, 4, 7, 8, 11, 12,... What number should come next?
a) 7 b) 10 c) 14 **d) 15**
34. Look at this series: 8, 22, 8, 28, 8,... What number should come next?
a) 9 b) 29 c) 32 **d) 34**
35. Look at this series: 31, 29, 24, 22, 17,... What number should come next?
a) 15 b) 14 c) 13 d) 12
36. A and B invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is :
a) 500 b) 1000 **c) 1500** d) 2000
37. A, B, C started a business with their investments in the ratio 1 : 3 : 5. After 4 months, A invested the same amount as before and B as well as C withdrew half of their investments. The ratio of their profits at the end of the year is:
a) 1 : 2 : 3 b) 3 : 4 : 15 c) 3 : 5 : 10 **d) 5 : 6 : 10**
38. A, B and C enter into a partnership and their shares are in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$. After 2 months, A withdraws half of his capital and after 10 months, a profit of Rs. 378 is divided among them. What is B's share?
a) 144 b) 169 c) 225 d) 339
39. A and B are partners in a business. A contributes $\frac{1}{4}$ of the capital for 15 months and B received $\frac{2}{3}$ of the profit. For how long B's money was used?
a) 3 months b) 6 months **c) 10 months** d) 12 months

40. A, B, C rent a pasture. A puts 10 oxen for 7 months, B puts 12 oxen for 5 months and C puts 15 oxen for 3 months for grazing. If the rent of the pasture is Rs. 175, how much must C pay as his share of rent?
 a) **Rs. 45** b) Rs. 50 c) Rs. 55 d) Rs. 60
41. A began a business with Rs. 85,000. He was joined afterwards by B with Rs. 42,500. For how much period does B join, if the profits at the end of the year are divided in the ratio of 3 : 1?
 a) 4 months b) 5 months c) 6 months **d) 8 months**
42. A and B started a business jointly A's investment was thrice the investment of B and the period of his investment was two times the period of investment of B. If B received Rs. 4000 as profit, then their total profit is:
 a) 22000 **b) 28000** c) 32000 d) 36000
43. A, B and C enter into a partnership with a capital in which A's contribution is Rs. 10,000. If out of a total profit of Rs. 1000, A gets Rs. 500 and B gets Rs. 300, then C's capital is:
 a) **4000** b) 5000 c) 6000 d) 7000
44. Simran started a software business by investing Rs. 50,000. After six months, Nanda joined her with a capital of Rs. 80,000. After 3 years, they earned a profit of Rs. 24,500. What was Simran's share in the profit?
 a) 10110 **b) 10500** c) 12000 d) 13000
45. A and B start a business jointly. A invests Rs. 16,000 for 8 months and B remains in the business for 4 months, Out of total profit, B claims 1/4 of the profit. How much money was contributed by B?
 a) 12000 **b) 12800** c) 13000 d) 14500

These CAT Sequence and Series questions/problems with solutions provide you vital practice for the topic. The purpose of these posts is very simple: to help you learn through practice.

46. Find the following sum
 $1/(2^2-1)+1/(4^2-1)+1/(6^2-1)+\dots+1/(20^2-1)$
 a) 9/10 b) 10/11 c) 19/21 **d) 10/21**
47. Two men X and Y started working for a certain company at similar jobs on

January 1,1950. X asked for an initial salary of Rs. 300 with an annual increment of Rs. 30. Y asked for an initial salary of Rs. 200 with a rise of Rs. 15 every six months. Assume that the arrangements remained unaltered till December 31,1959. Salary is paid on the last day of the month. What is the total amount paid to them as salary during the period?

a) **Rs. 93,300** b) Rs. 93,200 c) Rs. 93,100 d) None of these

48. Let S denote the infinite sum $2 + 5X + 9x^2 + 14x^3 + 20x^4 + \dots$, $|x| < 1$, then S equals
a) **$\{(2-x)/(1-x)^3\}$** b) $\{(2-x)/(1+x)^3\}$ c) $\{(2+x)/(1-x)^3\}$ d) $\{(2+x)/(1+x)^3\}$

49. The infinite sum $1 + (4/7) + (9/7^2) + (16/7^3) + (25/7^4) + \dots$ equals
a) 27/14 b) 21/13 c) **49/27** d) 256/147

50. Consider the set $S = \{1, 2, 3, \dots, 1000\}$. How many arithmetic progressions can be formed from the elements of S that start with 1 and end with 1000 and have at least 3 elements?
a) 3 b) 4 c) 6 d) **7** e) 8



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