





C) 4

D) 5

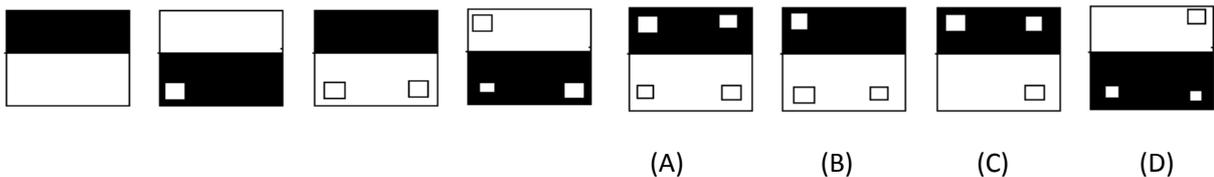
12. Directions: This question is based on the following information:

Five houses lettered A, B, C, D & E are built in a row next to each other. The houses are lined up in the order A, B, C, D & E. Each of the five houses has a colored chimney. The roof and chimney of each house must be painted as follow:

- i. The roof be painted green, red or yellow
- ii. The chimney must be painted white, black or red.
- iii. No house may have the same color chimney as the color of roof.
- iv. No house may use any of the same color that the every next house uses.
- v. House E has a green roof.
- vi. House has a red root and black chimney

- A) At least two houses have black chimney
- B) At least two houses have red roofs.
- C) At least two houses have white chimneys.
- D) At least two houses have green roofs.

13. Which figure completes the series?



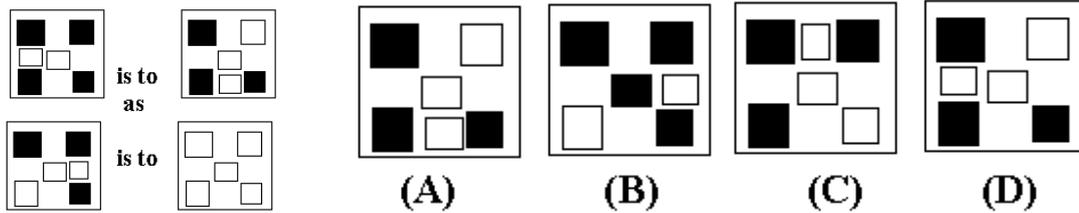
14. The ascending order of the fractions  $1/15$ ,  $34/75$ ,  $1/25$ ,  $3/45$  is listed as

- A)  $7/15$ ,  $34/75$ ,  $3/45$ ,  $1/25$
- B)  $34/75$ ,  $7/15$ ,  $3/45$ ,  $1/25$
- C)  $1/25$ ,  $3/45$ ,  $34/75$ ,  $7/15$
- D) None of these

16. If the average of 6, 11, 19 and d is to lie between 19 and d, then which of the following is true?

- A)  $d < 40$
- B)  $d = 40$
- C)  $d > 40$
- D) Can't be determined

17. Which figures completes the statement?



17. In an objective type test of 50 questions, the final score is calculated by subtracting twice the number of wrong answer from the total number of correct answers. If a student attempted all questions and receive a final score of 35, how many wrong answers did he given?

- A) 8  
 B) 6  
 C) 5  
 D) 4

18. Given that the sum of the odd integers from 1 to 99 inclusives is 2500, what is the sum of even integers from 20 to 100 inclusives?

- A) 2500  
 B) 2550  
 C) 2600  
 D) none of these

19. Divide 45 into four parts such that when 2 is added to the first part , 2 is subtracted from the second part, 2 is multiplied by the third part and the fourth part is divided by two, all result in the same number.

- A) 6 , 14, 5, 18  
 B) 8, 14, 3, 20  
 C) 12, 8, 9, 16  
 D) 8, 12, 5, 20

20. There are two numbers such that one of them diminished by the reciprocal of the other is equal to the second diminished by the reciprocal of the first. Then

- A) The number are equal  
 B) their products is 1  
 C) the numbers are equal or their products is 1  
 D) None of these

21. If P is a% more than Q and Q is b% less than P, then

- A)  $1/a - 1/b = 100$   
 B)  $1/b - 1/a = 1/100$   
 C)  $1/a - 1/b = 1/100$   
 D) None of these

22. Two numbers are such that their difference, their sum and their products are to one another as 1 : 3 : 8. Then the smallest of two numbers is

- A) 4  
 B) 6  
 C) 8  
 D) None of these

23. Three positive integer are given. Taken any two of the integer and find their average and add this average to third integer. The number thus obtained are 37 , 34, 35. Then one of the original integer is

- A) 15  
B) 16  
C) 19  
D) None of these

24. If  $n^3$  is odd, which of the following statement are true?

- (I)  $n$  is odd                      (II)  $n^2$  is odd                      (III)  $n^2$  is even  
A) I only                                      B) II only  
C) I & II only                                      D) III only

25. If "MCA" is coded as "NXZ", then "CHANCE" will be coded as

- A) XSZMXV                                      B)YSZMYV  
C)XZSMXV                                      D) None of these

26. A certain number of bullet were shared by 3 people equally. Each of them fired 4 bullets and the sum of the remaining bullets was equal to the initial share each had got. What was the initial number of bullets?

- A)18    B)20  
C) 22    D)44

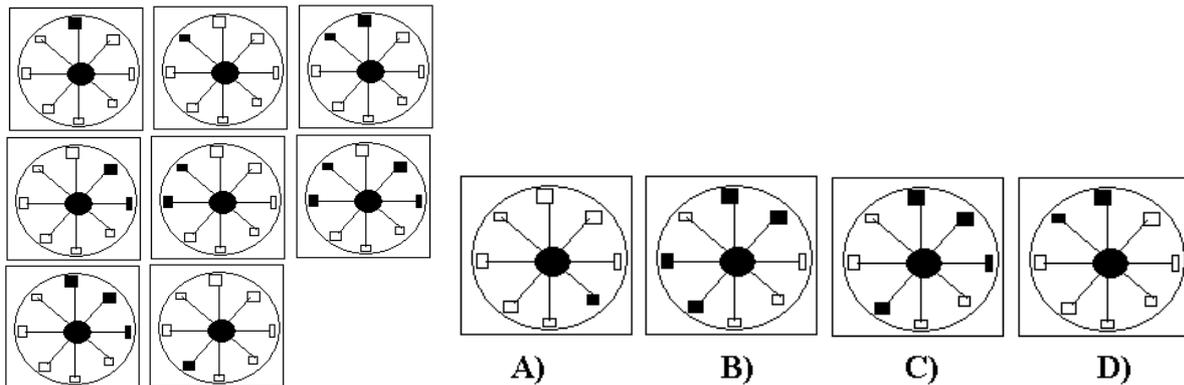
27. A train running at 54 kmph takes 20seconds to pass a platform. Next it takes 12 seconds to pass a man walking at 6 kmph in the same direction in which the train is going. Find the length of the train and the length of the platform.

- A) length of the train= 140 m and the length of the platform = 160 m.  
B) length of the train= 160 m and the length of the platform = 140 m.  
C) length of the train= 100 m and the length of the platform = 160 m.  
D) Can't be determined from the given data.

28. A piece of string 6 feet long is cut into three smaller pieces. How long is the longest of the three pieces ? Given that:

- (I) two pieces are having the same length;  
(II) One piece is 3 feet 2 inches long.

29. Which figure completes the series?



30. In the assembly election, the candidate of party A received one and a half times as many votes as the candidate of party B. The B candidate received one third more votes than the independent candidates. 900 votes were cast for the independent candidates. How many votes were cast for A candidate ?

- |         |         |
|---------|---------|
| A) 900  | B) 1600 |
| C) 1000 | D) 1800 |

31. The sum of two times one natural number and three times another natural number is less than 24. If the first natural number is less than or equal to eight, the highest value of the second natural number is:

- |      |      |
|------|------|
| A) 5 | B) 6 |
| C) 7 | D) 9 |

32. - 20, -- 16, --12, -- 8

In the sequence above, each term after the first is 4 greater than the preceding term. Which of the following could not be a term in the sequence?

- |        |        |
|--------|--------|
| A) 0   | B) 200 |
| C) 762 | D) 668 |

33. If  $0 < x < 1$  which is greater?

- |            |          |
|------------|----------|
| A) $1/x^2$ | B) $1/x$ |
| C) $x$     | D) $x^2$ |



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40. If  $pqr = 1$ ,  $rst = 0$  and  $spr = 0$ , which of the following must be zero?

A) p

B) q

C) r

D) s