Mastering Aptitude and REASONING

Teacher's Help Book (2)

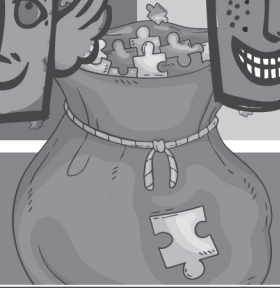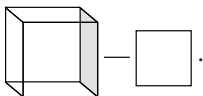# Mastering Aptitude and REASONING

2

1 GEOMETRICAL SHAPES

1. There are 6 triangles in the given figure.
2. There are 10 straight lines in the given figure.
3. There are 16 straight lines in the given figure.
4. There are 5 curved lines in the given figure.
5. There are 6 square in the given figure.
6. There are 9 circles in the given figure.
7. There are 2 curved lines in the given figure.
8. There are 6 triangles in the given figure.
9. There are 8 triangles in the given figure.
10. A square has most number of corners, i.e. 4, as compared to other figures.
11. There are 8 vertices in a cuboid.
12. A cone has 2 faces.
13. Tina has drawn 9 circles.
14. There are 7 squares in the given figure.
15. The circles Q and S do not touch each other.
16. There are 4 diamond shapes in the given figure.
17. The correct match is — ☐ .
18. There are 10 straight lines in the given figure.
19. There are 7 rectangles in the given figure.
20. There are 4 triangles in the given figure.

2 ODD ONE OUT

1. Except option (d), which are chessman. All other options are different types of balls.

2. Except option (b), which is a shrub. All other options are different types of trees.

3. Except option (c), which is a fruit. All other options are vegetables.

4. Except option (d), which is not a stringed instrument. All other options are stringed instruments.

5. Except option (b), which is an insect. All other options are animals.

6. Except option (d), which is a vegetable. All other options are junk foods.

7. Except option (c), which is a bird. All other options are aquatic animals.

8. Except option (d), which is a book. All other options are parts of computer.

9. Except option (a), which is a bicycle. All other options are the things found in the bathroom.

10. Except option (b), which is a flower with 6 petals. All other options are flowers with 5 petals.

11. Except option (a), in which the circle is not shaded. All other options have shaded circles.

12. Except option (d), which has one shaded circle. All other options have 2 shaded circles.

13. Except option (b), in which the figure is divided into three parts. All other options have the figures divided into two parts.

14. Except option (d), which has no circular face. All other options have circular faces.

15. Except option (b), which has 2 lines in the front of the arrow. All other options have one line in the front of the arrow.

16. Except option (c), which has opposite shaded parts. All other options have consecutive shaded parts.

17. Except option (d), which are not consecutive letters. All other options are consecutive letters.

18. Except option (c), in which the letters are in reverse order. All other options have the letters in sequential order.

19. Except option (d), which is an odd number. All other options are even numbers.

20. Except option (c), in which the inner figure is divided into different number of parts as the outer figure. All other options have the inner figure divided into same number of parts as the outer figure.

21. Except option (d), $(8 - 2) = 6$. All other options have the same answer i.e., $8 - 3 = 12 - 7 = 10 - 5 = 5$.

22. Except option (d), all other options are vowels.

23. Except option (d), in which small letter preceeds a capital letter. All other options have capital letter preceeding the small letter.

24. Except option (c), which has wavy lines. All other options have straight lines.

25. Except option (c), in which there is a letter J between I and K. All other options have consecutive letters.

26. Paper is not found in a geometry box.

27. Butterfly is not a reptile.

28. Potato is not a fruit.

3 〉 WHAT COME NEXT

1. The shapes of the figures are changing alternately.

2. The shaded parts in the figures are changing alternately.

3. The inner square is increasing in size in each figure.

4. The number of stars are decreasing in number.

5. The shapes are changing like cone, cube, cylinder, cone, cube.

6. The number of triangles are increasing in number.

7. The number of figures are changing alternately and the circles are changing their places.

8. The alphabets are increasing in sequential manner.

9. There are same alphabets in the first and the third places and their next alphabet comes in between them.

10. The alphabets are given in the reverse order.

11. The given pattern is $2 \times 3 = 6$, $3 \times 3 = 9$, $4 \times 3 = 12$, $5 \times 3 = 15$ and $6 \times 3 = 18$

12. The given pattern is $4 + 5 = 9$, $3 + 8 = 11$, $7 + 6 = 13$ and $8 + 7 = 15$.

13. In the given pattern, the numbers are decreasing by 5, i.e.,
$50 - 5 = 45$, $45 - 5 = 40$, $40 - 5 = 35$, $35 - 5 = 30$, $30 - 5 = 25$

14. In the given pattern, the numbers are increasing by 3, i.e.;
$2 + 3 = 5$, $5 + 3 = 8$, $8 + 3 = 11$, $11 + 3 = 14$, $14 + 3 = 17$

15. In the given pattern, the middle number is the sum of the other numbers.
$2 + 3 + 4 = 9$
$4 + 5 + 6 = 15$
$6 + 7 + 9 = 22$

16. In the given pattern, the number on the top is the product of the other numbers.

$$10 \times 2 = 20$$
$$5 \times 2 = 10$$

17. In the given pattern, the numbers are increasing by 10.

$$51 + 10 = 61, 61 + 10 = 71$$
$$71 + 10 = 81, 81 + 10 = 91$$

18. In the given pattern, the number in the small square is the product of the other numbers.

$$4 \times 8 = 32, 6 \times 6 = 36$$
$$7 \times 9 = 63, 3 \times 5 = 15$$

19. In the given pattern, the balls are decreasing by 2.

$$8 - 2 = 6, 6 - 2 = 4, 4 - 2 = 2$$

20. In the given pattern, the parts of the computer are changing alternately.

21. In the given pattern, the alphabets are increasing in sequential manner and in number.

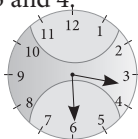22. In the given pattern, the alphabets are increasing in set of 4, i.e.,

ABCD, EFGH, IJKL, MNOP

23. In the given pattern, the numbers are given in words and numerals.

4 MEASUREMENT

1. The longest pencil is green pencil.

2. Beaker M contains the most amount of water.

3. String D is the shortest.

4. Toy Q costs the least.

5. The child will take 1 minute to brush his teeth.

6. Giraffe is the tallest animal.

7. The feather is the lightest.

8. 9 scoops will fill 3 bowls of ice-cream.

9. There are 6, 10-minute intervals in an hour.

10. The hour hand is between 3 and 4.

11. There are 120 minutes in 2 hours.
    60 minutes × 2 = 120 minutes

12. Jay worked for 13 days on this project.

13. It will be Friday.

14. 1 bucket contains 4 mugs of water. 5 buckets will contain = 4 × 5 = 20 mugs of water.

15. 6 $\boxed{W}$ are needed to balance 1 $\boxed{Y}$.

16. 30 minutes past 4:10 = 4:10 + 30 minutes
    = 4:40

17. Potato is heavier than Onion.

18. The day after tomorrow will be Friday.

19. 2 hours = 60 minutes × 2
    = 120 minutes

    No. of 5-minutes in 120 minutes = $\dfrac{120}{5}$ = 24

20. Ria is the tallest sister.

5 ANALOGY

1. As cup is for saucer, similarly chair is for table.

2. As tie is for neck, similarly cap is for head.

3. As eyes are used to watch television, similarly, tongue is used to taste ice-cream.

4. As ball is for bat, similarly, shuttle cock is for racquet.

5. As postman is for letter, similarly, fireman is for fire engine.

6. The first pairs are the mirror images of Z, similarly, in the second pair, the mirror images of B are shown.

7. In the first pair, the first figure is divided into two parts. The second pair follows the same concept.

8. In the first pair, the first figure has 1 square and the second figure has same number of squares as the number of sides of the outer square. Similarly, the same pattern is followed by the second pair.

9. The first pair shows the cylinder and its two circular faces. In the same way, the second pair shows a cone and its one circular face.

10. The first pair shows the square in a chessboard. Similarly, the second pair shows the hexagons of a honey comb.

11. In the first and the second pairs, the number of figures are becoming double.

12. In the first and second pairs, the figures are changing from 2D to 3D, i.e., triangle to cone and square to cube.

13. The first pair shows the pizza and its shape. In the same way, the second pair shows the sandwich and its shape.

14. The shapes in the figures are interchanging their size.

15. The first and second pairs show the pattern of drawing the figures.

16. We eat when we are hungry. In the same way, we drink when we are thirsty.

17. The stars can be seen at night. In the same way, the Sun can be seen in the day time.

18. The spoon is found in the kitchen. In the same way, the mug is found in the bathroom.

19. The cows eats grass. In the same way, the dog eats the bone.

20. A teacher works in a school. In the same way, the postman works in the post office.

21. The first pair show the circles and its number. In the second pair, the same rule is followed.

22. In the first pair, there are 3 letters in the word MAN. In the same way, there are 4 letters in the word MOON.

23. The first pair show the alphabets from the beginning and end of the alphabet sequence. The second pair follows the same rule.

24. The first and the second pair shows the number of dots as the number of sides in the shapes.

25. In the first pair, the missing part of the first figure is shown. The second pair follows the same rule.

26. The first pair shows the number getting doubled. The second pair follows the same rule.

6 SPATIAL RELATIONSHIPS

1. If A = 1, B = 2, C = 3, then D = 4. They are showing the sequence number of alphabets.

2. The code for CAT is :

C A T
↓ ↓ ↓
D B U

In the same way, DOG is coded as:

D O B
↓ ↓ ↓
E P H

3. The sequence number of letter H is 8, the sequence number of letter J is 10.

4. Cow gives us milk and 'cow' is called 'horse'.

5. We hang the calendar on the wall and calendar is called the alarm.

6. We read the book and book is called shelf.

7. The largest land animal is the elephant and elephant is called tiger.

8. We ride a bicycle which has two wheels and bicycle is called car.

9. Strawberry is a fruit and strawberry is called chocolate.

10. Eraser is used to correct mistakes and eraser is called ruler.

11. A cat purrs and a cat is called a chick.

12. A square has four equal sides and a square is called a triangle.

13. Air is blown into flute and flute is called guitar.

14. A man sleeps on a bed and bed is called window.

15. Soap is used for washing hands and soap is called ink.

16. A person hears using ears and ear is called leg.

17. Newspaper is used to read news everyday and newspaper s called novel.

18. Fisherman is related to fish and fish is called snake.

19. The sequence number of alphabets is shown as:

D = 4, G = 7, Z = 26 and S = 19

20. The code for 2   4   6   3   0   5
                      ↓+1   ↓+1   ↓+1   ;   ↓+1   ↓+1   ↓+1
                      3   4   7   4   1   6

and 6   0   2
     ↓+1   ↓+1   ↓+1
     7   1   3

7 RANKING TEST

1. Clown G is fourth from the right end.
2. Clown A is third from the left end.
3. Clown A is to the immediate left of clown G.
4. Clown G is second to the left of clown N.
5. Clown N is fourth to the right of clown E.
6. Clown M.
7. Rabbit Q is at the second position.
8. Rabbit R is at the third position.
9. Rabbit S is at the fourth position.
10. Rabbit V is last from the finish line.
11. Rabbit U is at the sixth position.
12. Rabbit Q comes after P but before R.
13. Tina is at the end of the queue.
14. $\overrightarrow{\text{Left}}$ B Ⓘ C Y C L Ⓔ $\overleftarrow{\text{Right}}$

    The third letter from the right end is Y.
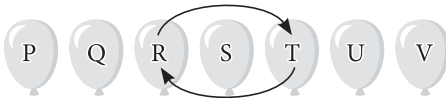15. Pear is fifth from the left end.
16. $\overrightarrow{\text{Left}}$ Ⓣ E A Ⓗ E Ⓡ $\overleftarrow{\text{Right}}$

    Letter A is second from the left end.
17. $\overrightarrow{\text{Left}}$ R Ⓔ Ⓐ S Ⓞ Ⓘ N G $\overleftarrow{\text{Right}}$

    Letter S is fourth from the right end.
18. Letter T is third from the left end.

19. Y is the 3rd letter from the left end.
20. 1st number from the left = 3

    4th number from the left = 4

    7 is the 2nd number from the right end.
21. ✓ is 3rd image from the right end.
22. Letter W is fourth letter from the right end.
23. Fish M is between fish P and fish S.
24. Fish A and Fish F.