GROW WITH SAKSHI

TCS SMART HIRING 2025

EXAM PREPARATION GUIDE

REASONING ABILITY

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Reasoning Ability Sample Questions

1. Word Pattern (10 Questions)

1. If in the word "EXAMPLE," the first and last letters are interchanged, the second and second-last letters are interchanged, and so on, what is the new word?
    A. EALPMEX
    B. LAXMPEE
    C. LAEMPEX
    D. EPLAXME
2. Which of the following letters should replace the question mark?
    AAB, BBC, CCD, DDE, ??
    A. DDF
    B. FFE
    C. EED
    D. GGF
3. What is the next term in the series?
    Z, X, V, T, R, ??
    A. P
    B. Q
    C. S
    D. O
4. If the letters of the word "CALENDAR" are rearranged in alphabetical order, what will be the third letter?
    A. A
    B. C
    C. D
    D. E
5. How many letters are there between the 3rd letter from the left and the 5th letter from the right in the word "OPINION"?
    A. 1
    B. 2
    C. 3
    D. 4
6. If the word "SUCCESS" is written in reverse, which letter will be at the fourth position from the right?
    A. S
    B. E
    C. U
    D. C
7. Which of the following words can be formed by the letters of the word "INFORMATION"?
    A. FORM
    B. STORM
    C. STONE
    D. ALL
8. If the second letter of the word "MAGNET" is replaced by the fourth letter, what will be the new word?
    A. MGTNEA
    B. MGANTE
    C. MNAETG
    D. MANGET

9. Choose the word that does not belong to the group.
   A. EAR
   B. EYE
   C. NOSE
   D. HEAD
10. Which of the following is the odd one out in the given sequence of letters?
    AB, BC, CD, DE, EF, FG
    A. BC
    B. AB
    C. FG
    D. DE

2. Letter Series (10 Questions)

11. What is the next letter in the series?
    D, F, I, M, Q, ??
    A. U
    B. R
    C. S
    D. P
12. Which letter replaces the question mark?
    Z, W, T, Q, ??
    A. N
    B. P
    C. M
    D. O
13. What is the next letter in the series?
    A, D, G, J, ??
    A. K
    B. M
    C. L
    D. N
14. What is the 5th letter to the left of the 7th letter from the right in the word "MILLION"?
    A. I
    B. L
    C. O
    D. N
15. Which of the following letters should come next in the sequence?
    D, G, K, N, ??
    A. R
    B. P
    C. Q
    D. S
16. What is the next letter in the series?
    P, Q, R, S, T, ??
    A. U
    B. W
    C. V
    D. X
17. What is the missing letter in the series?
    M, O, Q, S, ??
    A. R

B. T

C. U

D. V

18. Find the next term in the series:

A, C, E, G, ??

A. I

B. H

C. F

D. J

19. What letter should replace the question mark in the series:

O, Q, T, W, ??

A. X

B. V

C. U

D. Y

20. Which letter is the odd one out in the following series?

B, E, I, M, P

A. P

B. M

C. B

D. I

3. Number Series (10 Questions)

21. What is the next number in the sequence?

2, 4, 8, 16, 32, ??

A. 64

B. 48

C. 56

D. 50

22. Find the missing term:

5, 10, 15, ??, 25, 30

A. 18

B. 20

C. 22

D. 24

23. What is the next number in the series?

1, 4, 9, 16, ??

A. 20

B. 25

C. 24

D. 18

24. What is the next number in the series?

3, 6, 12, 24, ??

A. 42

B. 48

C. 60

D. 56

25. What is the missing number?

2, 5, 10, 17, ??

A. 22

B. 26

C. 30
D. 36

26. What is the next number in the series?
    10, 20, 40, 80, ??
    A. 160
    B. 100
    C. 150
    D. 120

27. Find the missing term:
    81, 64, 49, ??, 25
    A. 36
    B. 30
    C. 40
    D. 45

28. What is the next number in the series?
    5, 10, 20, 40, ??
    A. 80
    B. 60
    C. 100
    D. 90

29. What is the next number in the series?
    2, 5, 10, 17, ??
    A. 30
    B. 26
    C. 24
    D. 20

30. What is the missing number in the sequence?
    2, 5, 8, 11, ??
    A. 15
    B. 13
    C. 14
    D. 16

4. Seating Arrangements (10 Questions)

31. Six people – A, B, C, D, E, and F – sit in a circle. B sits second to the right of A. D is not an immediate neighbor of B. E sits second to the left of D. Who sits to the immediate left of C?
    A. A
    B. B
    C. E
    D. F

32. Eight people – P, Q, R, S, T, U, V, and W – sit in a row. T is second to the left of V, who is third from the right. U is an immediate neighbor of V. P is at one extreme, and W is third to the right of P. Who is in the middle?
    A. Q
    B. S
    C. T
    D. U

33. Five people – A, B, C, D, and E – are sitting in a line. C is to the right of A but to the left of B. E is not at the extreme ends. Who is sitting at the extreme left?
    A. A
    B. C

C. D

D. B

34. Four couples are seated in a circle such that males and females alternate. R is married to P, and S is not next to T. Who is S's partner?

    A. Q

    B. U

    C. T

    D. V

35. Seven people – A, B, C, D, E, F, and G – sit in a row. A sits at one end, while F and G are neighbors. D is second from the right, and B is to the immediate left of D. Who sits to the right of C?

    A. B

    B. D

    C. E

    D. G

36. Eight friends are sitting in a circle. P is to the immediate left of Q. R is second to the right of Q, and S is an immediate neighbor of R. Who is to the immediate right of P?

    A. R

    B. Q

    C. S

    D. T

37. Six people – A, B, C, D, E, and F – sit on a bench. A is to the left of B and C. D is not at either end. E is third from the left. Who is to the immediate right of D?

    A. B

    B. F

    C. C

    D. A

38. Ten people sit in a row such that M is third from the left and N is second from the right. How many people sit between M and N?

    A. 6

    B. 7

    C. 5

    D. 4

39. Four people – A, B, C, and D – are seated at a square table with one person on each side. A sits opposite to B, and C is not next to A. Who sits opposite C?

    A. A

    B. B

    C. D

    D. Cannot be determined

40. Seven people sit in a circle. A is to the immediate right of B. C is to the immediate left of D. Who is third to the right of A?

    A. E

    B. C

    C. F

    D. G

5. Blood Relations (10 Questions)

41. A is the mother of B. C is the father of A. D is the son of B. How is C related to D?

    A. Grandfather

    B. Grandmother

    C. Father

    D. Uncle

42. B is A's father, and C is B's brother. How is A related to C?
    A. Nephew/Niece
    B. Uncle
    C. Cousin
    D. Brother

43. If P's father is Q, and Q's daughter is R, how is R related to P?
    A. Sister
    B. Aunt
    C. Mother
    D. Daughter

44. A is the daughter of B. C is the son of D, and B and D are married. How is C related to A?
    A. Brother
    B. Father
    C. Son
    D. Cousin

45. X is the father of Y. Z is the brother of Y. How is Z related to X?
    A. Son
    B. Brother
    C. Father
    D. Nephew

46. A is the sister of B, and B is the son of C. How is C related to A?
    A. Father
    B. Mother
    C. Uncle
    D. Grandfather

47. D is the brother of A's mother. How is D related to A?
    A. Uncle
    B. Father
    C. Grandfather
    D. Cousin

48. If P is the sister of Q and Q is the brother of R, how is R related to P?
    A. Brother
    B. Sister
    C. Cousin
    D. None

49. If X is the son of Y and Y is the father of Z, how is Z related to X?
    A. Father
    B. Mother
    C. Sibling
    D. None

50. Y is the wife of Z. X is the daughter of Y, and A is the son of X. How is Z related to A?
    A. Grandfather
    B. Father
    C. Uncle
    D. None

6. Direction Sense (10 Questions)

51. A person walks 10 meters North, then 5 meters East. How far is the person from the starting point?
    A. 15 meters
    B. 10 meters
    C. 12 meters
    D. 5 meters
52. A person walks 15 meters South, then 8 meters West, and then 15 meters North. In which direction is the person now from the starting point?
    A. South
    B. West
    C. North
    D. East
53. A man walks 10 meters to the South, 5 meters to the West, 20 meters to the North, and then 10 meters to the East. What is his final position?
    A. 5 meters North
    B. 5 meters South
    C. 15 meters North
    D. 5 meters West
54. If a person walks 5 kilometers North, then 5 kilometers East, and then 5 kilometers South, how far is the person from the starting point?
    A. 5 km
    B. 10 km
    C. 15 km
    D. 0 km
55. A person walks 4 meters South, then 3 meters East, and finally 4 meters North. How far is the person from the starting point?
    A. 3 meters
    B. 4 meters
    C. 7 meters
    D. 5 meters
56. A person walks 10 meters East, 15 meters North, and then 20 meters West. How far is the person from the starting point?
    A. 5 meters West
    B. 5 meters East
    C. 10 meters North
    D. 15 meters East
57. A person starts at point X, walks 20 meters East, then 20 meters South, and then 20 meters West. What is his position relative to point X?
    A. 20 meters South
    B. 20 meters East
    C. 20 meters West
    D. 20 meters North
58. A person walks 10 meters East, 10 meters North, 10 meters West, and 10 meters South. What is the total distance traveled?
    A. 20 meters
    B. 40 meters
    C. 30 meters
    D. 10 meters
59. A person walks 50 meters to the North, then 50 meters to the East, and finally 50 meters to the South. What is the total distance traveled?
    A. 150 meters
    B. 100 meters
    C. 50 meters
    D. 200 meters

60. A person walks 5 kilometers North, 2 kilometers East, and 5 kilometers South. What is the total distance between the starting point and the final position?
    A. 2 km
    B. 5 km
    C. 7 km
    D. 10 km

7. Logical Deductions (10 Questions)

61. If all roses are flowers and some flowers are red, then which of the following is necessarily true?
    A. Some roses are red.
    B. All roses are red.
    C. No roses are red.
    D. Some red flowers are roses.
62. If A is taller than B, and B is taller than C, who is the shortest?
    A. A
    B. B
    C. C
    D. Cannot be determined
63. All doctors are professionals. Some professionals are doctors. Which of the following statements is true?
    A. All professionals are doctors.
    B. All doctors are professionals.
    C. No professional is a doctor.
    D. Some professionals are not doctors.
64. If a person is a teacher, they must be qualified. John is qualified. Can we conclude that John is a teacher?
    A. Yes
    B. No
    C. Only if John teaches
    D. Cannot be determined
65. All birds have feathers. Some animals have feathers. What can be concluded?
    A. Some birds are animals.
    B. Some birds have feathers.
    C. No animals are birds.
    D. All animals have feathers.
66. If X is older than Y, and Y is older than Z, who is the youngest?
    A. X
    B. Y
    C. Z
    D. Cannot be determined
67. All squares are rectangles. Some rectangles are red. Can we conclude that some squares are red?
    A. Yes
    B. No
    C. Only if the rectangles are squares
    D. Cannot be determined
68. If all cars are vehicles, and some vehicles are trucks, can we conclude that some cars are trucks?
    A. Yes
    B. No
    C. Only if the trucks are cars
    D. Cannot be determined
69. If every square has four sides and a rectangle has four sides, can we conclude that every rectangle is a square?
    A. Yes

B. No

C. Only if the rectangle is a square

D. Cannot be determined

70. All cats are animals. Some animals are pets. Can we conclude that some cats are pets?

A. Yes

B. No

C. Only if the cats are pets

D. Cannot be determined

8. Analogy (10 Questions)

71. Hand is to Finger as Foot is to _____.
    A. Toe
    B. Heel
    C. Knee
    D. Ankle
72. Book is to Reading as Fork is to _____.
    A. Eating
    B. Drawing
    C. Cutting
    D. Cooking
73. Tree is to Leaf as Flower is to _____.
    A. Petal
    B. Stem
    C. Root
    D. Branch
74. Pen is to Writer as Brush is to _____.
    A. Artist
    B. Teacher
    C. Doctor
    D. Musician
75. Bird is to Fly as Fish is to _____.
    A. Swim
    B. Walk
    C. Run
    D. Crawl
76. King is to Queen as Brother is to _____.
    A. Sister
    B. Father
    C. Son
    D. Daughter
77. Sun is to Day as Moon is to _____.
    A. Night
    B. Morning
    C. Sky
    D. Evening
78. Foot is to Shoe as Hand is to _____.
    A. Glove
    B. Finger
    C. Ring
    D. Wrist

79. Salt is to Pepper as Sweet is to _____.
    A. Sour
    B. Bitter
    C. Spicy
    D. Salty
80. Fire is to Hot as Ice is to _____.
    A. Cold
    B. Wet
    C. Solid
    D. Freezing

9. Syllogism (10 Questions)

81. All apples are fruits. All fruits are healthy. Which conclusion can be drawn?
    A. All apples are healthy.
    B. Some apples are healthy.
    C. Some fruits are not healthy.
    D. All healthy things are fruits.
82. No dogs are cats. All animals are mammals. Which of the following is true?
    A. Some dogs are mammals.
    B. No mammals are cats.
    C. Some animals are cats.
    D. All dogs are animals.
83. All teachers are knowledgeable. John is a teacher. Which conclusion is true?
    A. John is knowledgeable.
    B. John is not knowledgeable.
    C. John is a student.
    D. None
84. All roses are flowers. Some flowers are red. Which conclusion can be drawn?
    A. Some roses are red.
    B. All roses are red.
    C. Some flowers are not roses.
    D. Some roses are not flowers.
85. Some books are novels. No novels are comics. Which of the following is true?
    A. No books are comics.
    B. Some books are comics.
    C. Some novels are comics.
    D. All comics are novels.
86. All birds have feathers. Some animals are birds. Which conclusion is true?
    A. Some animals have feathers.
    B. All animals are birds.
    C. No birds are animals.
    D. None
87. Some cars are electric. No electric cars are expensive. Which conclusion can be drawn?
    A. Some cars are not expensive.
    B. All electric cars are not expensive.
    C. Some cars are expensive.
    D. None
88. All humans are mammals. Some mammals live in water. Which conclusion is true?
    A. Some humans live in water.
    B. No humans live in water.

C. All mammals live in water.

D. Some humans are mammals.

89. All teachers are kind. Some students are teachers. Which conclusion can be drawn?

A. Some students are kind.

B. All students are kind.

C. No students are kind.

D. Some teachers are not kind.

90. Some apples are red. No red apples are sweet. Which conclusion is true?

A. Some apples are not sweet.

B. All red apples are sweet.

C. All apples are sweet.

D. No apples are sweet.

10. Data Sufficiency (10 Questions)

91. Is x>yx > y?

- Statement 1: x+y>10x + y > 10
- Statement 2: x−y=4x - y = 4

A. Statement 1 alone is sufficient

B. Statement 2 alone is sufficient

C. Both statements together are sufficient

D. Both statements together are not sufficient

92. What is the value of xx?

- Statement 1: x+5=15x + 5 = 15
- Statement 2: 2x=202x = 20

A. Statement 1 alone is sufficient

B. Statement 2 alone is sufficient

C. Both statements together are sufficient

D. Both statements together are not sufficient

93. Are there more boys than girls in the class?

- Statement 1: The total number of students is 40.
- Statement 2: The number of girls in the class is 18.

A. Statement 1 alone is sufficient

B. Statement 2 alone is sufficient

C. Both statements together are sufficient

D. Both statements together are not sufficient

94. Is the number zz an integer?

- Statement 1: z=1/2z = 1/2
- Statement 2: z=3/2z = 3/2

A. Statement 1 alone is sufficient

B. Statement 2 alone is sufficient

C. Both statements together are sufficient

D. Both statements together are not sufficient

95. How much is the total cost of 3 items?

- Statement 1: The cost of item A is 5 units.
- Statement 2: The total cost of items B and C is 10 units.
  A. Statement 1 alone is sufficient
  B. Statement 2 alone is sufficient
  C. Both statements together are sufficient
  D. Both statements together are not sufficient

96. Is a triangle isosceles?

- Statement 1: Two sides of the triangle are equal.
- Statement 2: The third side of the triangle is different from the other two.
  A. Statement 1 alone is sufficient
  B. Statement 2 alone is sufficient
  C. Both statements together are sufficient
  D. Both statements together are not sufficient

97. What is the average of 5 numbers?

- Statement 1: The sum of the numbers is 30.
- Statement 2: The numbers are all multiples of 5.
  A. Statement 1 alone is sufficient
  B. Statement 2 alone is sufficient
  C. Both statements together are sufficient
  D. Both statements together are not sufficient

98. What is the distance between A and B?

- Statement 1: A is 10 miles North of B.
- Statement 2: A is 10 miles South of B.
  A. Statement 1 alone is sufficient
  B. Statement 2 alone is sufficient
  C. Both statements together are sufficient
  D. Both statements together are not sufficient

99. What is the price of an item?

- Statement 1: The price of the item was reduced by 20%.
- Statement 2: The price after reduction is ₹400.
  A. Statement 1 alone is sufficient
  B. Statement 2 alone is sufficient
  C. Both statements together are sufficient
  D. Both statements together are not sufficient

100.   Is the number a multiple of 5?

- Statement 1: The number is divisible by 10.
- Statement 2: The number is divisible by 2 and 5.
  A. Statement 1 alone is sufficient
  B. Statement 2 alone is sufficient
  C. Both statements together are sufficient
  D. Both statements together are not sufficient

11. Statement-Based (10 Questions)

101.   Statement: "All apples are fruits, and some fruits are sweet."
Conclusion 1: Some apples are sweet.
Conclusion 2: All fruits are apples.
A. Only conclusion 1 follows
B. Only conclusion 2 follows
C. Both conclusions follow
D. Neither conclusion follows

102.   Statement: "If it rains, the ground will be wet. The ground is wet."
Conclusion 1: It rained.
Conclusion 2: The ground can also be wet for other reasons.
A. Only conclusion 1 follows
B. Only conclusion 2 follows
C. Both conclusions follow
D. Neither conclusion follows

103.   Statement: "Some cats are dogs, and no dog is a bird."
Conclusion 1: Some cats are not birds.
Conclusion 2: All birds are cats.
A. Only conclusion 1 follows
B. Only conclusion 2 follows
C. Both conclusions follow
D. Neither conclusion follows

104.   Statement: "No student in the class failed. Some students are athletes."
Conclusion 1: No athlete failed.
Conclusion 2: All students are athletes.
A. Only conclusion 1 follows
B. Only conclusion 2 follows
C. Both conclusions follow
D. Neither conclusion follows

105.   Statement: "All cars are vehicles, and some vehicles are bikes."
Conclusion 1: Some cars are bikes.
Conclusion 2: All bikes are vehicles.
A. Only conclusion 1 follows
B. Only conclusion 2 follows
C. Both conclusions follow
D. Neither conclusion follows

106.   Statement: "If John studies, he will pass. John did not pass."
Conclusion 1: John did not study.
Conclusion 2: John failed because he didn't study.
A. Only conclusion 1 follows
B. Only conclusion 2 follows
C. Both conclusions follow
D. Neither conclusion follows

107.   Statement: "All engineers are logical. Some logical people are creative."
Conclusion 1: All engineers are creative.
Conclusion 2: Some engineers are creative.
A. Only conclusion 1 follows
B. Only conclusion 2 follows
C. Both conclusions follow
D. Neither conclusion follows

108.   Statement: "Some books are novels. All novels are fiction."
Conclusion 1: All books are fiction.
Conclusion 2: Some books are fiction.
A. Only conclusion 1 follows
B. Only conclusion 2 follows
C. Both conclusions follow
D. Neither conclusion follows

109.   Statement: "If a person exercises daily, they will be fit. Rahul is fit."
Conclusion 1: Rahul exercises daily.
Conclusion 2: There could be other reasons why Rahul is fit.
A. Only conclusion 1 follows
B. Only conclusion 2 follows
C. Both conclusions follow
D. Neither conclusion follows

110.   Statement: "All pens are tools. Some tools are useful."
Conclusion 1: Some pens are useful.
Conclusion 2: All tools are pens.
A. Only conclusion 1 follows
B. Only conclusion 2 follows
C. Both conclusions follow
D. Neither conclusion follows

12. Logical Venn Diagram-Based DI (10 Questions)

111.   A Venn diagram shows the relationship between Doctors, Engineers, and Artists.
How many individuals are only Doctors?

- Data:
   1. 20 individuals are Doctors.
   2. 10 individuals are both Doctors and Engineers.
   3. 5 individuals are Doctors, Engineers, and Artists.
      A. 5
      B. 10
      C. 15
      D. Cannot be determined

112.   A survey shows that 50 people like tea, 40 like coffee, and 30 like both. How many people like only tea?
A. 20
B. 30
C. 50
D. 10

113.   Three sets A, B, and C overlap in a Venn diagram. If the intersection of A and B is 10, and B and C is 15, but A, B, and C together have 50 elements, what is the number of unique elements in B?
A. 50
B. 35
C. 25
D. Cannot be determined

114.   How many students study both Mathematics and Physics but not Chemistry?
Data:
   1. Students studying Mathematics = 40.
   2. Students studying Physics = 30.

3. Students studying Chemistry = 20.
4. 10 study all three subjects.
5. 15 study Mathematics and Physics.
   A. 5
   B. 10
   C. 15
   D. 20
115.   A Venn diagram represents employees skilled in Java, Python, and SQL. How many employees know only Python?
   Data:
   1. 40 employees know Python.
   2. 20 know both Python and Java.
   3. 10 know Python, Java, and SQL.
      A. 10
      B. 20
      C. 30
      D. Cannot be determined

13. Visual/Spatial Reasoning (10 Questions)

116.   A cube is painted red on all faces and cut into 125 smaller cubes. How many cubes have exactly two faces painted red?
   A. 8
   B. 12
   C. 24
   D. 36
117.   A piece of paper is folded three times, punched once, and then unfolded. How many holes will the unfolded paper have?
   A. 2
   B. 4
   C. 8
   D. 16
118.   Find the odd one out among the following 3D shapes:
   A. Sphere
   B. Cone
   C. Cube
   D. Cylinder
119.   A pattern of dots in a 3D figure shows symmetry. Which of the following is not symmetrical?
   A. Sphere
   B. Tetrahedron
   C. Cone
   D. Cube