



CREST Reasoning Olympiad (CRO)

Sample Paper

Pattern and Marking Scheme

Grade	Topic/Section	No. of Questions	Marks per Question	Total Marks
Grade 7	Logical Reasoning	40	1	40
	Achiever's Section	10	2	20
Grand Total		50		60

The total duration of the exam is 60 minutes.

Syllabus

Section 1: Series Completion and Inserting the Missing Character, Analogy and Classification, Blood Relations, Coding - Decoding, Direction Sense Test, Logical Venn Diagram, Alpha Numeric Sequence Puzzle, Number, Ranking and Time Sequence Test, Logical Sequence of Words, Alphabet Test, Mathematical Operations, Analytical Reasoning, Mirror Images and Water Images, Embedded Figures, Figure Formation, Construction of Squares, Grouping of Identical Figures, Figure Matrix, Paper Folding and Paper Cutting, Cubes and Dice, Dot Situations.

Achievers Section: Higher Order Thinking Questions - Syllabus as per Section 1

For more details, visit <https://www.crestolympiads.com/reasoning-olympiad-cro>

- a. 49
- b. 45
- c. 64
- d. 56

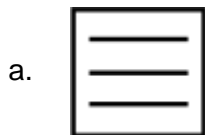
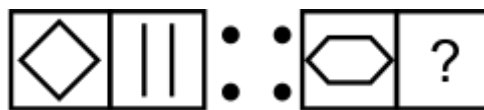
17. If F = 6, MAT = 34, then how much is CAR?

- a. 20
- b. 21
- c. 22
- d. 25

18. A boy introduced a girl as the daughter of the son of the father of his uncle. How is the girl related to the boy?

- a. Aunt
- b. Niece
- c. Sister
- d. Grand-daughter

19. Select the related figure from the given alternatives:



20. How many even numbers are there in the following sequence of numbers which are immediately followed by an odd number as well as immediately preceded by an even number?

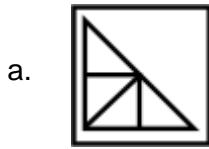
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- a. 3
- b. 4
- c. 5
- d. 6

21. Which one of the given responses would be a meaningful order of the following words?

1. Lung
2. Nostrils
3. Windpipe
4. Blood

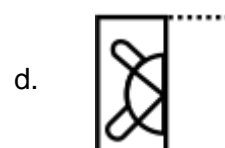
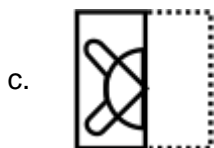
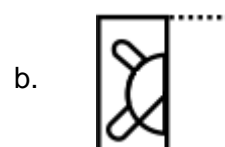
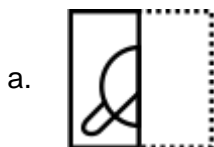
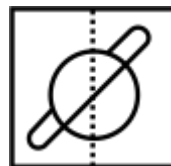
- a. 1, 2, 3, 4
- b. 2, 3, 1, 4
- c. 1, 3, 4, 2
- d. 4, 3, 2, 1



27. Among the four answer figures which one can be formed from the cut-out pieces given in the question figure?



28. A square transparent sheet with a pattern is given. Find out from among the four alternatives how the pattern would appear when the transparent sheet is folded at the dotted line.



29. Pointing towards a photograph, Sam said, "She is the only daughter of only child of my grandfather". How is the girl related to Sam?

- a. Daughter
- b. Niece
- c. Sister
- d. Mother

30. In the following question, certain pairs of words are given, out of which the words in all pairs except one, bear a certain common relationship. Choose the odd pair.

- a. Crime : Punishment
- b. Judgement : Advocate
- c. Enterprise : Success
- d. Exercise : Health

31. In the following question, four options are given. Out of these three are alike in a particular way but remaining one is different. Find the odd one from the given options which is different from others.

- a. 26
- b. 64
- c. 124
- d. 728

32. If in a certain code language, 'RAMAN' is written as '23.5' and 'CAP' is written as '10', then how will 'CAPACITY' be written in that code?

- a. 39
- b. 48
- c. 49
- d. 50

33. In a certain language, 'sun shines brightly' is written as 'ba lo sul', 'houses are brightly lit' as 'kado ula ari ba' and 'sun rises from East' as 'dopi kup lo mo'. What are the code words for 'sun' and 'brightly'?

- a. ba, sul
- b. sul, lo
- c. lo, ba
- d. ba, lo

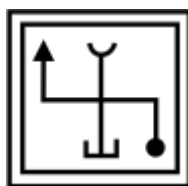
34. Tom ranked 9th from the top and 38th from the bottom in a class. How many students are there in the class?

- a. 42
- b. 44
- c. 46
- d. 48

35. Kevin remembers that his brother Ana's birthday is after the 20th of August but before the 28th of August, while Rose remembers that Ana's birthday is before the 22nd of August but after the 12th of August. On which date does Ana's birthday fall?

- a. 20th August
- b. 21st August
- c. 22nd August
- d. Cannot be determined

36. From the given suitable options find the water image of the object given in the question figure.



Assumptions

- I. Internal candidates aspire only for getting promotions, without much contribution.
II. Experienced professionals are more likely to handle the problems of the airline.

- a. Only assumption I is implicit b. Only assumption II is implicit
c. Both assumption I and II are implicit d. Neither assumption I nor assumption II is implicit

47. Read the following information carefully and then answer the question based on that.
From amongst five doctors A, B, C, D and E, four engineers G, H, K and L and six teachers M, N, O, P, Q and R, some teams are to be selected. Of these A, B, G, H, O, P and Q are females and the rest are males. The formation of teams is subject to the following conditions.
1. Whenever there is a male doctor, there will be no female teacher.
 2. Whenever there is a male engineer, there will be no female doctor.
 3. There shall not be more than two male teachers in any team.
- If the team consists of three doctors, two male engineers and two teachers, the members of the team could be

- a. CDEKLMN b. ABCKLMR
c. CDEKLPR d. BCDKLN

48. In this question, relationship between different elements is shown in the statements. The statements are followed by two conclusions.

Statements: $A = B \leq C$, $A > R$

Conclusions: (i) $B > R$, (ii) $R < C$

- a. Only conclusion (i) is true b. Only conclusion (ii) is true
c. Both conclusions (i) and (ii) are true d. Both conclusions (i) and (ii) are not true

49. David started walking towards North. After walking 30 m, he turned towards the left and walked 40 m. He then turned left and walked 30 m. He again turned left and walked 50 m. How far is he from his original position?

- a. 30 m b. 40 m
c. 50 m d. 90 m

50. The pair of opposite faces of a solid cube having sides 3 cm are black, blue and yellow, respectively. After the painting this cube is divided into smaller cubes of side 1 cm. How many smaller cubes have only one face painted?

- a. 4 b. 6
c. 9 d. 12

Answer Key

1.	b	2.	b	3.	a	4.	a	5.	d	6.	c	7.	a
8.	a	9.	c	10.	b	11.	c	12.	c	13.	a	14.	a
15.	b	16.	c	17.	c	18.	c	19.	d	20.	b	21.	b
22.	b	23.	c	24.	a	25.	a	26.	a	27.	a	28.	d
29.	c	30.	b	31.	b	32.	a	33.	c	34.	c	35.	b
36.	d	37.	c	38.	c	39.	d	40.	b	41.	d	42.	b
43.	a	44.	a	45.	a	46.	b	47.	a	48.	c	49.	d
50.	b												