



CREST Reasoning Olympiad (CRO)

Sample Paper

Pattern and Marking Scheme

Grade	Topic/Section	No. of Questions	Marks per Question	Total Marks
Grade 3	Logical Reasoning	25	1	25
	Achiever's Section	10	2	20
Grand Total		35		45

The total duration of the exam is 60 minutes.

Syllabus

Section 1: Patterns, Analogy and Classification, Geometrical Shapes, Mirror Images and Water Images, Direction Sense Test, Ranking Test, Alphabet Test and Logical Sequence of Words, Puzzle Test, Coding - Decoding.

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

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

Logical Reasoning (Each Question is 1 Mark)

1. The following question consists of two words each that have a certain relationship with each other. Select the pair that has the same relationship as the original words:

Spider : Web

- a. Ink : Pen
b. Cock : Hen
c. Teacher : Student
d. Poet : Poetry

2. The following question consists of two words each that have a certain relationship with each other. Select the pair that has the same relationship as the original words:

Ideas : Brain

- a. Literature : Author
b. Clouds : Oceans
c. Money : Bank
d. Planets : Earth

3. Three words are given in the following question, which have something in common among themselves. Out of four given alternatives, choose the most appropriate description about these three words:

Pen : Rubber : Pencil

- a. They are goods for all purpose.
b. They are stationery goods.
c. They are famous Indian sites.
d. They are sports terms.

4. Three words are given in the following question, which have something in common among themselves. Choose the one which has the quality common to three given words:

Beetle : Grasshopper : Wasp

- a. Cricket
b. Insects
c. Pesticides
d. Butterfly

5. Three words are given in the following question, which are related in some way. Out of four given alternatives, choose the most appropriate option which has the same relationship:

Class : School : Student

- a. Ball : Bat : Pitch
b. Sister : Family : Brother
c. Hand : Body : Finger
d. Leaf : Tree : Root

6. Select the lettered pair that has the same relationship as the original pair of words.

Darkness : Lamp

- a. Fatigue : Exercise
b. Thirst : Water
c. Medicine : Illness
d. Study : Classroom

7. How many meaningful three-letter English words can be formed with the letters WNO using each letter only once in each word?

- a. None
b. One
c. Two
d. Three

8. How many N's are there in the following series which are immediately preceded by M and also immediately followed by M?
 M M N M N M E N M N F P N M N M N M N M

- a. 2
- b. 3
- c. 4
- d. 5

9. If in a certain code language 'SYSTEM' is written as 'SYSMET' and 'NEARER' is written as 'AENRER', then how will 'FRACTION' be written in that language?

- a. CARFNOIT
- b. CARFTION
- c. ARFCNOIT
- d. FRACNOIT

10. In the following question, four words are given, out of which three are the same in one way or the other and the fourth one is different from these three. Select the odd one:

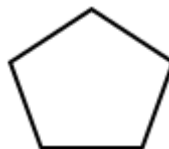
- a. Fruit
- b. Flower
- c. Leaf
- d. Tree

11. Which of the following will be the correct mirror image of the given figure?



- a.
- b.
- c.
- d.

12. Which of the following figures is similar to the given figure?



- a.
- b.
- c.
- d.

13. The following figure shows six persons sitting in a straight row, facing towards north. Who sits second to the left of Tom?



Michael Kate Kevin Tom Jack James

- a. Kate
b. Michael
c. Kevin
d. Jack

14. Which of the following will be the correct mirror image of the given figure?



- a. b.
c. d.

15. Find out the next figure of the following series:



- a. b.
c. d.

16. If MONDAY = 1, TUESDAY = 2, then THURSDAY = ?

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

17. Find out the next figure of the following series:



18. Which of the following will be the correct water image of the given figure?



19. The following figure shows four boxes with different books in them. Which of the following box contains a GK book but no Hindi book?

Hindi Maths GK	English Hindi GK	Computer GK Science	Science Maths English
Box A	Box B	Box C	Box D

- a. Box D
c. Box A

- b. Box B
d. Box C

20. Find the next letter of the following series:

A, C, E, G, ?

- a. K
c. H

- b. J
d. I

21. If A = 1, C = 3, then F = ?

- a. 2
c. 5

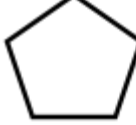
- b. 4
d. 6

22. If $ABC : CBA$, then $PQR : ?$

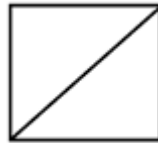
- a. RPQ
- b. RQP
- c. QRP
- d. STU

23. Which of the following figure has the same number of corners as the figure below?



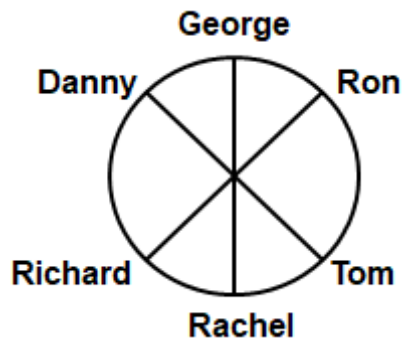
- a. 
- b. 
- c. 
- d. 

24. How many triangles are there in the given figure?



- a. One
- b. Two
- c. Three
- d. None

25. The following figure shows six persons sitting around a circular table facing the centre. Who is sitting second to the left of Richard?



- a. Danny
- b. Rachel
- c. George
- d. Ron

Achiever's Section (Each Question is 2 Marks)

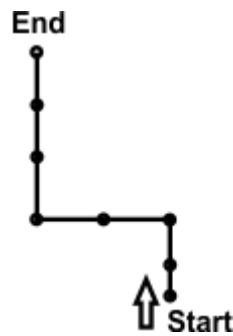
26. If the positions of the letters in the word 'ORGANISE' are rearranged in such a way that the position of the 1st and the 2nd letters are interchanged, similarly the position of the 3rd and the 4th letters are interchanged and so on, which of the following will be the 3rd from the right end after the rearrangement?

- | | |
|------|------|
| a. N | b. I |
| c. R | d. A |

27. Harry wants to go to school from his house. First of all, he goes to the crossing, and from here he turns to the right and reaches the bus stand. The bus stand is opposite the library. In which direction is the school located?

- | | |
|---------------|-------------------------|
| a. North | b. East |
| c. North-West | d. Cannot be determined |

28. If letter N represents North, E represent East, W represents West and S represents South and dots represents the number of steps, then find the code for the path given below:



- | | |
|-----------|-----------|
| a. N2E2N3 | b. S3E2S2 |
| c. N2W2N3 | d. S3W2S3 |

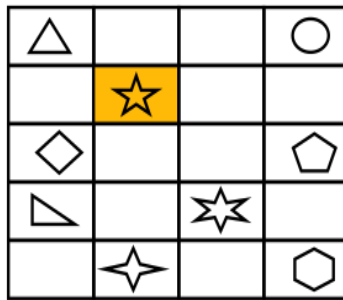
29. In a certain code, PIZZA is coded as #@##@, BURGER is coded as #@##@#, then TOFFEE will be coded as:

- | | |
|-----------|-----------|
| a. @#@##@ | b. #@#@## |
| c. ##@#@@ | d. #@##@@ |

30. Four books are kept in a column, one above the other. French book is kept below the English book. Three books are kept above the Science book. Maths book is kept below French book. Which book is kept at the top?

- | | |
|------------|------------|
| a. English | b. French |
| c. Maths | d. Science |

31. Start from the object highlighted in shaded colour, first go two blocks east, then go three blocks south, then go two blocks west. Where do you end up?



32. Four books are kept in a column, one above the other. Maths book is kept above English book. Science book is kept below German book. Which book is kept at the bottom?

- a. English
b. Science
c. German
d. Cannot be determined

33. There are four bags labelled as A, B, C and D. Each of them has a different number of balls. B has more balls than D. A has more balls than B. C has the least number of balls i.e., two. A has three more balls than C. Which of the following bags has four balls?

- a. B
b. A
c. D
d. Cannot be determined

34. Which of the following will be the correct mirror image of the given figure?

SATURDAY 

a. YADRTA2

b. SATURDAY

c. YADRTA2

d. YADRTA2

35. Which of the following will be the correct water image of the given figure?



a.



b.



c.



d.



Answer Key

1.	d	2.	c	3.	b	4.	b	5.	c	6.	b	7.	d
8.	d	9.	a	10.	d	11.	a	12.	b	13.	a	14.	a
15.	c	16.	b	17.	d	18.	a	19.	d	20.	d	21.	d
22.	b	23.	a	24.	b	25.	c	26.	a	27.	d	28.	c
29.	d	30.	a	31.	c	32.	d	33.	a	34.	d	35.	d