



### **CREST Reasoning Olympiad (CRO)**

# Sample Paper

Pattern and Marking Scheme									
Grade	Topic/Section	No. of Questions	<b>-</b>						
Grade 5	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:** Patterns, Analogy and Classification, Geometrical Shapes and Solids, Embedded Figures, Mirror Images and Water Images, Direction Sense Test, Possible Combinations, Ranking Test, Alphabet Test and Logical Sequence of Words, Puzzle Test, Coding - Decoding.

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

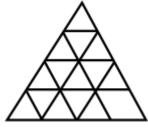
For more details, visit <a href="https://www.crestolympiads.com/reasoning-olympiad-cro">https://www.crestolympiads.com/reasoning-olympiad-cro</a>

## **Logical Reasoning (Each Question is 1 Mark)**

1.		In the question, some groups of letters are given. All of which except one, share a common similarity. Select the odd one.							
	a. B			JKLM WXYZ					
2.	There is a certain relationship between the pair of words given on either side of (::); identify the relationship of the given pair and find the matching term: REASON: SFBTPO:: THINK:?								
		GHMJ IHNKI		UIJOL UJKPM					
3.	have third	two words are given which are related to to find the word from the given alternative word, as the first two.  is related to 'Crockery' in the same way a	es w	hich has the exact same relationship to the					
	a. P	aper Stationary	-	Books Ink					
4.		ct the letter pair that has the same relation state : Religion	shi	o as the original pair of words.					
		eacher : Education otentate : Kingdom		Traitor : Country Jailer : Law					
5.	them	e words are given in the following question selves. Choose the one common to the gion: Mercury: Saturn		-					
		1ars upiter		Earth Planets					
6.	betwee	out the correct pair of words which will ma een the two words to the left of the sign of een, the two words to the right of the sign e: mace::face:?	do	uble colon and the same relationship					
	a. co			cfae afce					
7.	Find	the odd word that does not belong to the	grou	ıp.					
		file itre	b. d.	Centimetre Yard					

8.	rer	the question, four options are given. Out of t maining one is different. Find the odd one fro ners.		•
		18 26		24 30
9.	Fin	nd the middle letter between K and V in the E	Engl	ish alphabet.
	a. c.		b. d.	O No letter possible
10.		chard arranged his toys in a row. A train toy m the right. How many toys did Richard hav		ks sixteenth from the left and forty-ninth
		63 65		64 66
11.	If 8	336542 is coded for Garden, then what does	543	36 stands for?
		RAGE GEAR		DEAR NEAR
12.		n a certain code, 'DAUGHTER' is written as that code?	TEF	RDAUGH', how will 'APTITUDE' be written
		DEUAPTIT DUEAPTIT		UDEAPTIT DAUEPTIT
13.	Jai the	na remembers that Pam's birthday is certainly nuary. If Mike remembers that Pam's birthday at 13th of January. On which of the following ceck' is related to 'Tie' in the same way as 'Wa	iy is days	before the 17 <sup>th</sup> of January but not before was Pam's birthday?
	a. c.	14 <sup>th</sup> 16 <sup>th</sup>	b. d.	15 <sup>th</sup> Either 14 <sup>th</sup> or 15 <sup>th</sup>
14.	If t	he day after tomorrow is Sunday, then what sterday?		
		Wednesday Saturday	b. d.	Friday Monday
15.		stin is moving towards the North. He takes the noving now?	ne ri	ight turn. After this, he takes another right
		West South		East North

**16.** How many straight lines are there in the following figure?



- a. 9
- c. 15

- b. 11
- d. 48

17. Arrange the following animals accordingly to their size in increasing order.

- 1. Dog
- 2. Horse
- 3. Ant
- 4. Giraffe
- 5. Mouse
- a. 3, 1, 5, 2, 4
- c. 3, 5, 1, 2, 4

- b. 3, 5, 1, 4, 2
- d. 3, 5, 2, 4, 1

**18.** How many times a solid cube of 4 cm side needs to be cut to obtain smaller cubes of 2 cm side?

- a. 2
- c. 5

- b. 3
- d. 7

19. N is more intelligent than M. M is not as intelligent as Y. X is more intelligent than Y but not as good as N. Who is the most intelligent of all?

a. N

b. M

c. X

d. Y

20. Select the missing number in the following series:

- 2, 4, 8, 16, ?
- a. 20

b. 32

c. 24

d. 30

21. Which of the following will be the correct mirror image of the given figure, when the mirror is placed vertically to the right?

### Paint79

a. 97tniaP

97tniaP .d

<sup>◦</sup> 973nis9

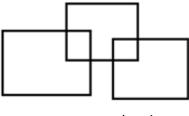
Paint79 b

- **22.** One morning, while going to school, Kevin observed that his shadow fell exactly to his right. In which direction was Kevin moving?
  - a. North

b. South

c. East

- d. West
- 23. From the given figures, select the one in which the question figure is present?



- a. 3
- c. 5

- b. 4
- d. 6
- **24.** One evening, Richard and Tom were facing each other. Richard observed that Tom's shadow fell exactly to Tom's left. In which direction was Richard facing?
  - a. North

b. East

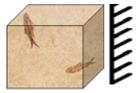
c. West

- d. South
- 25. How many such pairs of letters are there in the word "SLAVERY" which has as many letters between them as there are in the English alphabet series?
  - a. 1

b. 2

c. 3

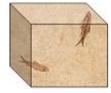
- d. 4
- **26.** Which of the following will be the correct mirror image of the given figure, when the mirror is placed vertically to the right?



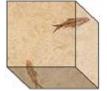
2



b.



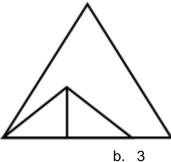
c.



d.



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



- a. 4
- c. 5

- D. 3
- d. 6
- 28. If FINGER is coded as 20-4-8-19-10-22, then how is GINGER coded?
  - a. 19-8-4-10-19-22
  - c. 10-19-4-19-8-22

- b. 22-20-19-10-4-8
- d. 19-4-8-19-10-22
- 29. Which of the following words can be formed by using the letters of the word "CRUSHING"?
  - a. Inch
  - c. Hang

- b. Cure
- d. Rub
- 30. If INDIA = 125, ENGLAND = 343, then FRANCE = ?
  - a. 57
  - c. 216

- b. 125
- d. 512
- 31. Which of the following will be the correct water image of the given figure?



а



b.



c.



d.



- **32.** In a certain code language, "MOVE" is written as "6735", "PEST" is written as "4509". Then "STOVE" will be written as:
  - a. 90765
  - c. 09735

- b. 09675
- d. 09465

33. Select the related word pair from the given alternatives.

Husband: Wife

a. Male: Femaleb. Boy: Girlc. Grandfather: Grandmotherd. Cow: Bull

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



a.



b.



c.



d.



35. Select the related number from the given alternatives.

32:6::24:?

- a. 2
- c. 8

- b. 3
- d. 5
- **36.** There are four girls namely Sara, Jack, Rachel and Pam. Each of them has a different height. Only Jack is shorter than Sara. Only Rachel is taller than Pam. Which of the following is the second tallest?
  - a. Rachel

b. Sara

c. Pam

- d. Jack
- 37. Select the related word from the given alternatives.

Scooter: Wheels:: Helicopter:?

a. Fly

b. Wings

c. Eagle

d. Pilot

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



- a. 4
- c. 3

- b. 5
- d. 6
- **39.** Which of the following will be the correct mirror image of the given figure, when the mirror is placed vertically to the right?



a.



b.



c.



d.



- **40.** In a certain language, 'REASON' is coded as 5 and 'BELIEVED' as 7. What is the code number of 'GOVERNMENT'?
  - a. 10
  - c. 7

- b. 9
- d. 8

#### **Achiever's Section (Each Question is 2 Marks)**

- **41.** In the following question, find out the correct pair of words which will make an appropriate analogical relationship between the two words to the left of the sign of double colon and the same relationship between, the two words to the right of the sign of double colon (::).
  - I: Bird:: Running: II
  - I. (A) Calling (B) Flying (C) Talking (D) Standing
  - II. (P) Kennel (Q) Dog (R) Hay (S) Farm
  - a. BP

b. BR

c. DP

- d. BQ
- **42.** In the 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. 4867

b. 5213

c. 6243

- d. 6469
- **43.** Five girls namely Amy, Barbie, Cathy, Divya and Emma are standing in a row facing towards the north but not necessarily in the same order.

  Amy sits second to the left of Cathy.

Barbie sits second to the right of Divya. Divya and Cathy are not immediate neighbours. Who among the following is an immediate neighbour of both Amy and Cathy? b. Divya a. Emma c. Barbie d. There is no such person 44. There are five friends namely Sam, Ron, Michael, David and Bob. Each of them likes a different food item namely Pizza, Cake, Pasta, Burger and Maggie but not necessarily in the same order. Either Michael or Ron likes cake. Bob likes burger. Neither Sam nor David likes Maggie. David doesn't like Pizza. Ron doesn't like Maggie. David likes which of the following food item? a. Cake b. Pizza c. Pasta d. Maggie 45. A clock is kept horizontally on a table in such a way that at 4.30 p.m., if hour's hand was pointing towards South-West. At what time will the hour's hand be pointing towards North? a. 10.30 p.m. b. 3:00 p.m. c. 7.30 p.m. d. 9:00 p.m. 46. Five people namely Tom, Jerry, Mickey, Daffy and Goofy are living on five different floors of the same building. The bottommost floor is numbered as first, the floor above it as second and so on till the topmost floor which is numbered as fifth. Two persons are living between Tom and Goofy. Goofy lives below Tom. Only one person is living between Daffy and Mickey. Daffy does not live on the third floor. Jerry does not live on the fourth floor. Who among the following lives on the topmost floor?

Neither Amy nor Cathy is sitting at the ends of the row.

47. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

BC\_E\_CCEB\_C\_

a. CCEBc. CBCE

a. Tom

c. Daffy

b. CCBE

b. Mickey

d. Cannot be determined

d. CEBE

**48.** Select the missing number in the following series:

a. 36

b. 64

c. 120

d. 240

**49.** Find the next term of the following series:

a. Q

b. R

c. E

d. S

**50.** There are six friends namely Kim, Joy, Ali, Ron, Bill, and Ray. Each of them likes a different colour namely Red, Green, Pink, Blue, Black, and Orange but not necessarily in the same order.

Joy likes blue.

Bill does not like green.

Kim neither likes black nor green.

Ray neither likes pink nor green.

Ray does not like orange.

Bill and Ray do not like red.

Ron likes Orange.

Ray likes which of the following colours?

a. Pink

b. Black

c. Blue

d. Orange

### **Answer Key**

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