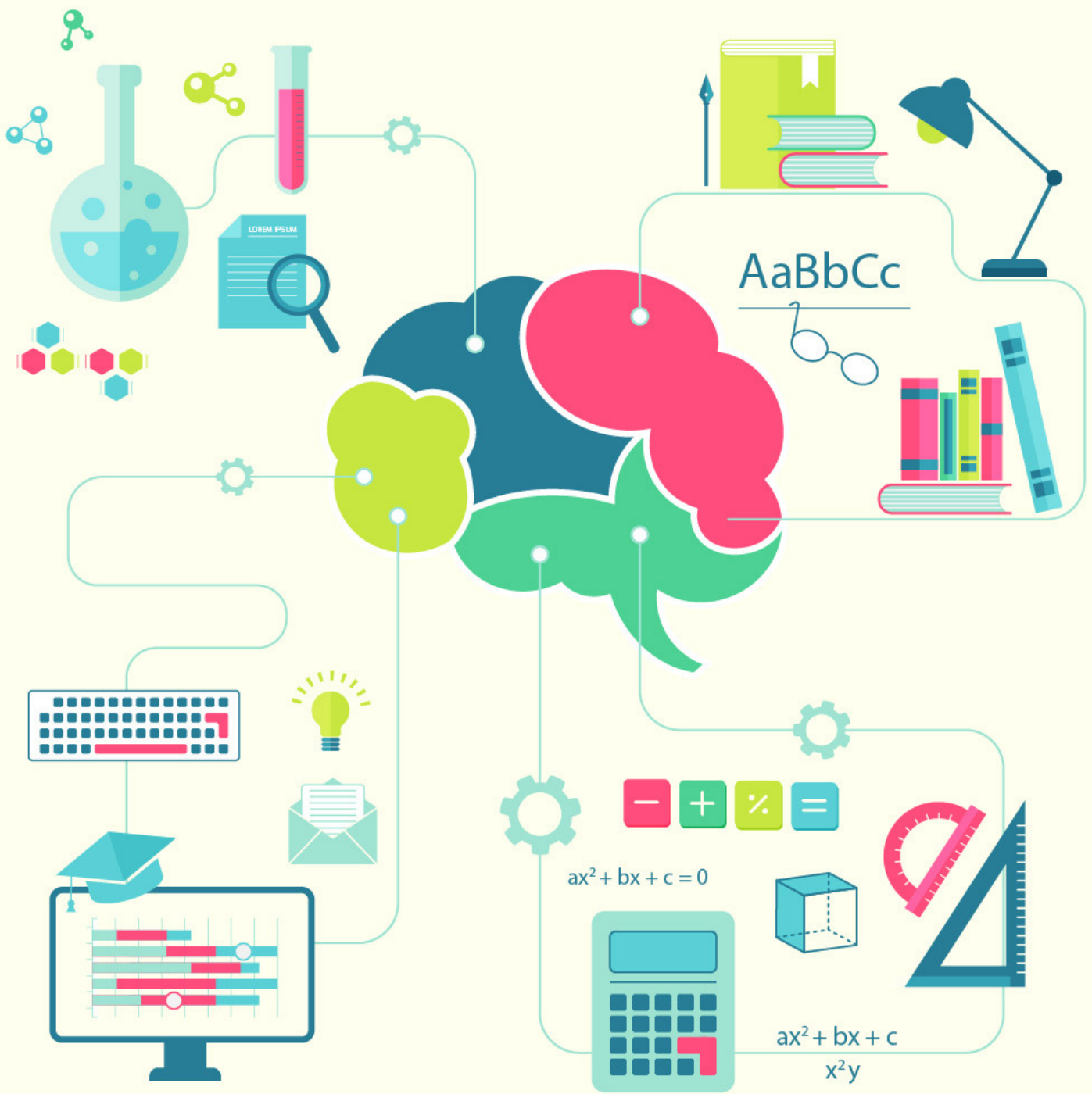


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Logical Reasoning Puzzles for CAT Set-2 PDF

17 May 2018





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Instructions: Four friends A, B, C and D study in the same class in St. Theresa Public school. The first four ranks in the class were obtained by these four students. They also were the top 4 rankers in Mathematics. The following observations are made based on their overall class ranks and ranks of each subject.

- (i) The one with the lower rank in Maths between A and B had the least class rank
- (ii) The one with the higher class rank between D and C had the least Math rank
- (iii) The one with the lower class rank between B and C, had a better Math rank than exactly two other friends
- (iv) The one with the lower Math rank between B and D, had the highest class rank
- (v) The one with lower class rank between A and C had the highest Math rank

Note: A lower numerical rank is considered as a higher rank

Question 1: How many different combinations are possible for the class rank?

- a) 1
- b) 2
- c) 3
- d) 4

Question 2: Who got the third rank in the class?

- a) A
- b) B
- c) C
- d) D

Question 3: The exact Math ranks of how many people can be uniquely determined?

- a) 1
- b) 2
- c) 3
- d) 4

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Question 4: Who obtained the third rank in Maths ?

- a) A
- b) B
- c) C
- d) cannot be determined

Question 5: How many friends obtained the same rank for the math and class rank?

- a) 0
- b) 1
- c) 2
- d) cannot be determined

Previous Year CAT LR Questions

Answers & Solutions (1 - 5):

First let's write down the conditions given for Class rank and Math rank separately.

Conditions Based on Math rank	Conditions based on Class rank
I. (A, B)lower -> least class rank	III. (D, C)higher-> least Math rank
II. (B, D)lower-> highest class rank	IV. (A,C)lower-> highest Math rank
	V. (B, C)lower-> second in Math

We see A and B are present in both the columns. Thus, making assumptions based on them will yield the most result. Let's first assume A has a lower Math rank than B.

From I, A has the least class rank. Thus, from IV, A has the highest Math rank. This contradicts our assumption. Thus, A definitely has a higher Math rank than B.

Thus, from I. B is 4th in Class rank. From V. B is the second in Math. Since A has higher Math rank than B, A will be the 1st in Math. Applying II, we get D is the 1st in the Class. Further using conditions III and IV, the following table can be formed .

Rank	Class	Math
1	D	A
2	C	B
3	A	C
4	B	D

- 1) Answer (A)
- 2) Answer (A)
- 3) Answer (D)
- 4) Answer (C)
- 5) Answer (A)

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