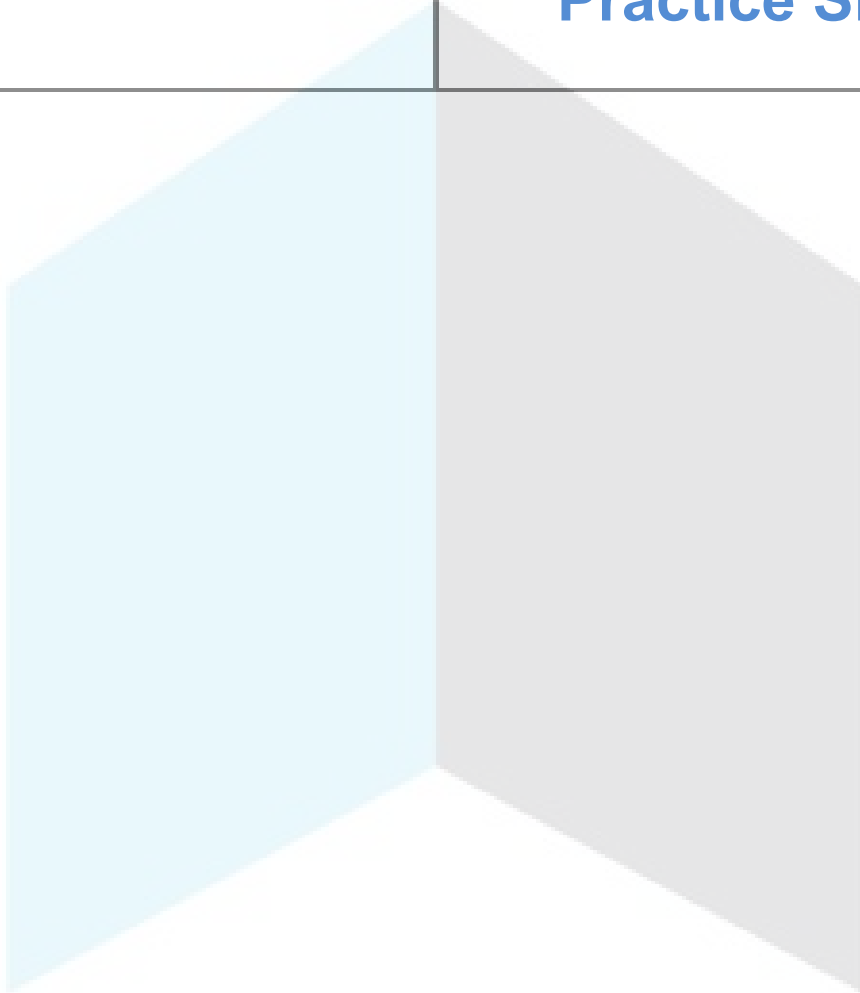# Accenture

## Critical Reasoning and Problem Solving Practice SET 3

# 18 Questions

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**Que. 1**   In a solution of alcohol and  water having 40% alcohol, 220 litres of alcohol is further added such that the quanitiy of alcohol in the final solution is now 20 litres more than the quantity of water. What is the quantity of water in the final solution?

1.   500
2.   650
3.   600
4.   550

**Testbook Solution**   Correct Option **- 3**

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**Que. 2**   Pipe A alone can fill the tank in 30 minutes while pipe B alone can fill the tank in 45 minutes. Pipe C alone can empty the tank in 54 minutes. If pipe A and Pipe B together are opened till half of the tank is filled, after that all three pipes are opened. Find the total time taken by all pipes to fill the tank.

1.   30.4 min
2.   22.5 min
3.   20.3 min
4.   26.8 min

**Testbook Solution**   Correct Option **- 2**

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**Que. 3**   A shopkeeper gives two pens free at the purchase of 10 pens. He gives 20% discount too and makes 20% profit. What is the ratio between the cost price and the marked price?

1.   4 : 9
2.   5 : 9
3.   2 : 3
4.   4 : 5

**Testbook Solution**   Correct Option **- 2**

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**Que. 4**   6 men can complete a piece of work in 10 days, whereas 10 women alone take 15 days to complete the same piece of work. Find the number of days taken by 6 men and 10 women together to complete the piece of work.

1.   6 days
2.   5 days
3.   8 days
4.   7 days

**Testbook Solution**   Correct Option **- 1**

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**Que. 5**   In a mocktail mixture rooh afza and water is in a certain ratio. If we took out 11 liter water, then the ratio become 6 : 7. If we took out 78 liter rooh afza from the new mixture, then the ratio becomes 4 : 9. Find the initial quantity of water.

1.   1 liters
2.   300 liters

3. 400 liters
4. 200 liters

**Testbook Solution**   Correct Option - **4**

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**Que. 6**   Raman and Raghav are playing a game in which each is asked to select a number from 1 to 8. If the numbers selected by them are the same then they will be rewarded. Find the probability in which they will not win in a single trial?

A. $\frac{1}{5}$

B. $\frac{1}{7}$

C. $\frac{6}{8}$

D. $\frac{7}{8}$

1. Only A
2. Both A and B
3. Both A and D
4. Only D

**Testbook Solution**   Correct Option - **4**

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**Que. 7**   A trader bought some apples and marked them 40% above Cost Price. He sold 70% of the apples at marked price and rest at 20% discount. Find his profit percentage?

1. 30.6%
2. 25.5%
3. 31.6%
4. 33.4%

**Testbook Solution**   Correct Option - **3**

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**Que. 8**   Pipe A, Pipe B and Pipe C filled the tank in 12 min, 20 min and 30 min respectively. All the pipes are opened together but after 3 minutes pipe A is closed and pipe B is closed 3 minutes before filling of the tank completely. In how much time an empty tank can be filled.

1. $\frac{49}{5} min$
2. $\frac{54}{5} min$
3. $\frac{59}{3} min$
4. $\frac{60}{2} min$

**Testbook Solution**   Correct Option - **2**

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**Que. 9**   A question is given followed by information in three statements. You have to find out the data in which statement(s) is sufficient to answer the question and mark your answer accordingly.

The speed of the stream is 3 km/hr. Find the speed of the boat in still water.

I) The boat covered 20 km in 5 hours upstream.

II) The boat covered 20 km in 2 hours downstream.

1. Only II is sufficient
2. Either I or II is sufficient

3.   Both I & II are sufficient
4.   None is sufficient

**Testbook Solution**   Correct Option - **2**

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**Que. 10**   Sum of first 25 terms in the following series would be

7, 11, 15, 19, 23, …

1.   1325
2.   1258
3.   1375
4.   1296

**Testbook Solution**   Correct Option - **3**

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**Que. 11**   **Directions: In the question, a statement is given, followed by two arguments, I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given arguments, if any, is a strong argument.**

**Statement:** The laws monitoring freedom of the press should be revisited in India.

**Arguments:**

I. Yes, today news reporting by media houses has just become a means to earn TRPs by sensationalism.

II.No, the media houses have the onus of bringing out the real stories to their viewers under the right to information act.

1.   Neither I nor II is strong.
2.   Only argument I is strong.
3.   Only argument II is strong.
4.   Both I and II are strong.

**Testbook Solution**   Correct Option - **4**

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**Que. 12**   Let x, y, z be three positive real numbers in a geometric progression such that x < y < z. If 5x, 16y, and 12z are in an arithmetic progression then the common ratio of the geometric progression is

1.   1/6
2.   3/2
3.   5/2
4.   3/6

**Testbook Solution**   Correct Option - **3**

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**Que. 13**   The table shows the monthly expenditure of Saumya. What percent of her monthly salary is she able to save?

| Expense | Amount |
|---|---|
| Food | 5,000 |
| Rent | 20,000 |
| Travel | 10,000 |
| Clothing | 3,000 |
| Miscellaneous | 15,000 |
| Savings | 7,500 |

1. 12.4
2. 15
3. 18
4. 20

**Testbook Solution** Correct Option - **1**

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**Que. 14** The ratio of the marks of 5 students is 2 : 3 : 5 : 1 : 4 and the average of their marks are 45. If another student who has 15 more marks than the highest marks obtained among these 5 student enters into the group. Find the percentage increase in the new average.

1. 15%
2. 16.66%
3. 20%
4. 8%

**Testbook Solution** Correct Option - **2**

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**Que. 15** **Directions:** A statement is given followed by two inferences I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given inferences, if any, follow from the given statement.

**Statement:**

It is the time when the weather changes frequently.

**Inference:**

I) We must eat outside foods.

II)Most of the people get sick at this time.

1. Only inference I follow.
2. Only inference II follows.
3. Both inference I and II follow.
4. None of the inferences follows.

**Testbook Solution** Correct Option - **2**

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**Que. 16** **Statement:**

In view of the statement on the ongoing strike of work by the employees, the government has agreed to work out an effective social security programme.

**Assumptions:**

i) The striking employees may not be satisfied with the announcement and continue the agitation.

ii) The striking employees may withdraw their agitation with immediate effect and start working.

1. If only assumption I is implicit.
2. If only assumption II is implicit
3. If both the assumptions I and II are implicit
4. If neither argument I nor II is implicit.

**Testbook Solution** Correct Option - **2**

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**Que. 17**

Given is a statement followed by two arguments numbered I and II. Consider the statement and the arguments and decide which of the arguments is strong.

**Statement:**

Is the choice of junk food a better option to create interest in eating in children?

**Arguments:**

I. Yes, the best way to create interest is to give the food a child likes.

II. No, junk food is the reason behind obesity, heart diseases, diabetes and other health problems and it is important to induce healthy eating habits in children.

1. Only argument II is strong.
2. Both arguments I and II are strong
3. Neither argument I nor II is strong
4. Only argument I is strong

**Testbook Solution**  Correct Option **- 1**

**Que. 18**  In the question below is a statement followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement:

**Statements:** Bitcoin, which is the world's largest cryptocurrency, rose to $12112 in trading just after midnight New York time, its first foray above $12000 since August 2019, according to pricing compiled by Bloomberg.

**Conclusions:**

I. Bitcoin is the largest cryptocurrency of the world.

II. Investment in cryptocurrency can be beneficial in future.

1. Only conclusion I follows
2. Only conclusion II follows
3. Either I or II follows
4. Neither I nor II follows

**Testbook Solution**  Correct Option **- 1**