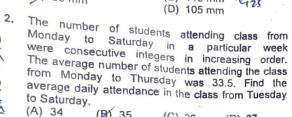


QUANTITATIVE ABILITY HANDOUT (A.M.A)

Ref: QAHO1031308

Directions for questions 1 to 20: Select th ct alternative from the given choices.

٦.	The average	to 20. Select the correct after
	hill station	er day rainfall for a 45 .
	second day	er day rainfall for a 15-day period at a 25 mm per day. If every day from the nere is an increase of 5 mm in the
	rainfall over	25 mm per day. If every day from the here is an increase of 5 mm in the previous day what is the minfall on
	the first day	Previous day, what is the rainfall on his period?
	(A) 95 mm	his period? 407 (11)
	(C) 90 mm	(B) 110 mm 4



In an examination conducted among 13 students, the average of their scores was 60. The top 7 scores have an average of 66 whereas the least 7 scores have an average of 54. Find the 7th highest score. (A) 52 (B) 55 (C) 59

(C) 36

(D) 37

The average age of the students in a, class is 21 years. If the teacher's age is also included, the average age goes up by 2 years. Find the

number of students in the class, if the teacher was 213 47 years old. (C) 14 (D) 18 (A) 9 (B) 12

The average age of a group of people was calculated as 28 years. This was 2 years more than the correct average as there was an error in noting 3 the age of two persons as 32 years and 36 years instead of 21 years and 23 years. How many persons were there in the group?

(B) 10 (C) 15 (D) 12 (A) 8 In a class, the average weight of the girls is 35 kg and the average weight of the boys is 42 kg. If the

ratio of boys to girls is 4 : 3, then find the average weight of the students in the class. (in kg.) (B) 32 Cuse 0 (A) 35.5 (D) 39

In a get together, there were a certain number of gentlemen and a certain number of ladies. The average height of the gentlemen was 187 cm whereas the average height of the ladies was 153 cm. If the average height of all the persons in party was 165 cm and there 66 gentlemen in the party, then how many ladies were there in the party?

(A) 120 (B) 124

(C) 40

(C) 136

(D) 121

 A group of 19 boys went to a restaurant. 18 boys paid ₹8 each. The 19th paid 88 each. The 19th boy paid 36 more than the average bill of all the 10th average bill of all the 19 boys. What is the amount paid by the 19th boy? (C) 56 ' (B) 46 (A) 15 .

OL

 A vessel contains milk and water in the ratio of 3:2.
 If 15 litres of water is and water in the ratio would. If 15 litres of water is added to it, the vessel would have milk and water in the have milk and water in the reverse ratio. Find the initial quantity of mixture in the vessel. (in litres) (B) 30 (C) 31 (A) 15

10. A, B and C are three vessels having mixtures of wine and water. A contains 30% wine, B contains 40% wine and C contains 45% wine, If 4 litres from A, 3 litres from B and 5 litres from C are mixed,

find the concentration of wine in the final mixture. (B) 38³/₄% (A) $35^{5}/_{12}\%$ (D) 40% (C) 39¹/₁₂%

11. Salt priced at ₹8 per kg is mixed with salt priced at 711 per kg to obtain a mixture priced at 79,25 per kg. Find the ratio in which the cheaper and dearer varieties of salts are mixed.

(A) 1:2 (D) 8:9 (C) 7:5

12. How many kilograms of rice costing ₹18 per kg must be mixed with 24 kg of rice costing ₹15 per kg, Nso that by selling the resultant mixture at ₹20 per kg >- there is a profit of 25%. (D) 24 (A) 12 (B) 15

13. A total of 300 chocolates were distributed among 120 children. The number of chocolates received by each boy was 2 and the number of chocolates received by each girl was 3. Find the number of boys in the group.

(A) 90 (B) 60 (C) 40 (D) 35

14. A sum of ₹10,000 is lent in two different parts. One part is lent at 7% p.a simple interest and the other is lent at 10% p.a simple interest. The total interest at the end of the year is ₹760. Find the ratio of the amounts lent at the given rates respectively. (A) 4:5 (B) 4:1 (C) 2:3

(D) 1:5 15. A test consists of 50 questions. Each correct answer fetches 1 mark. For each wrong answer ½ mark is (deducted. A candidate who wrote this test attempted all the questions. He scored 41 marks. Find the number of questions he correctly answered.

QAHO1031308/1

(A) 46 (B) 42 (C) 48 (D) 44

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16.	Fresh gra	pes con	tain pro	,	
	grapes con	ntain 200	% Water	water;	whereas dry
	grapes can	be obta	ned from	How ma	ny kgs of dry resh grapes?
	(A) 8	(B) 12)	O4 Kg of I	resh grapes?
		, ,,	(C) 15	(D) 24

17. The average score of 40 students in a Mathematics test is 50. If the highest and the lowest scores were excluded, the average score of the class would 60, find the highest score.

(A) 84

(B) 95

(C) 99

(D) 115

18. Abhishek bought milk at ₹20 per litre. He mixed it with water and then sold the mixture at his cost price and made a profit of 25%. Find the quantity of water mixed with each litre of milk?

(A) 0.30

(B) 0.15

(C) 0.20 (D) 0.25

19. A vessel of capacity 100 litres in fully filled with pure milk. Ten litres of milk is replaced with water. Now, 10 litres of the solution is replaced with 10 litres of water. Find the quantity of the pure milk in the resulting solution.

(A) 72 litres

(B) 81 litres

(C) 90 litres

(D) 80 litres

20. Alloy A contains copper and zinc in the ratio of 2:3 whereas alloy B contains copper and tin in the ratio of 4:5. Equal weights of the two alloys are melted and mixed to form a third alloy. Find the weight of copper in 1kg of the third alloy. (in kg)

A) $\frac{17}{50}$

(B) $\frac{18}{45}$

(C) 19 45 (D) $\frac{21}{40}$

My = Sum of of truck & of = 10, 20, 30, 40, 50. In find quartity of what is it?

What is it?

Oue = (n-ferm + lest term)

Org = 50

C=0 c=50

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LOGICAL ABILITY HANDOUT

(Analytical Puzzles - Binary Logic and QBR)

Ref: LAHO1031310

Directions for questions 1 to 5: Select the correct alternative from the given choices

- 1. Two boys A and B made the following statements regarding their heights
 - My height in inches numerically is neither a perfect square nor a perfect cube. My height is more than 80 inches
 - I am not shorter than A. The digits used to express the height of A (in inches) are not the same as those used to express my height in inches.

Find the heights of A and B respectively in inches, if it is known that all the statements of A and B are false.

(A) A - 72, B - 27

(B) A - 64, B - 46

(C) A-36, B-63

(D) A-27, B-72

When three suspects of a theft were interrogated, they replied as follows. Each of then belongs to a unique category among truth tellers (who always speak truth), liars (who always lie) and alternators (who alternate between truth and lie, in any order).

they replied as follows:

- 1. I am not the thief.
- Sharukh is the liar.

Johar:

- Karan is the thief.
- I am a liar.

Sharukh:

- Karan is the liar. 1.
- Johar is not the thief. 2.

Who is the truth teller?

- (A) Karan
- (B) Johar
- (C) Sharukh
- (D) Cannot be determined
- A police officer asked each of the three persons A, B and C about a car that passed by. They made the following statements.
 - A: The car is black in colour. It went towards North.
 - B: The car is white in colour. It went towards South.
 - C: The car is white in colour. It went towards North. It is known that one of them is a truth teller (always speaks truth), one is a liar (always lies) and the third one is an alternator (always alternates between a true statement and a false statement in any order).

Which of the following is not possible?

- (A) The car is white in colour and went towards South.
- (B) The car is black in colour and went towards
- (C) The car is black in colour and did not go towards South.
- (D) The car is white in colour and went towards North.

The people of the "Bolo-Kaun" tribe always make two statements while replying to any question. Amar, Akbar and Anthony belong to "Bolo-Kaun" tribe. One among the three always speaks truth and is known as Total tribe. is known as Truth-teller, one always tells lies and is known as a liar and one always alternates between the truth and lie in any order and is known an alternator. When a police asked them, "Who among you is the murderer?", their replies were as follows.

I am the murderer. Amar

Akbar is a liar. I am the murderer.

Akbar

Anthony is a liar.

Anthony:

Akbar is the murderer.

Amar is a liar.

It is known that only one among Amar, Akbar and Anthony is the murderer. Who is the murderer?

(A) Amar

(B) Akbar

(C) Anthony

(D) Cannot be determined

5. The persons who belong to the "Sahi-nahi" tribe always make two statements while replying to any question, one of which is always true and the other one is always false. Tarun while walking on the road eached a point where the road splits into two roads, one towards east and the other towards west. One of the two roads leads to the stadium. Tarun met three persons Rajesh, Sudheer and Praveen, who belong to the "Sahi-nahi" tribe. Tarun got the following replies when he asked, "Which road leads to the stadium?"

I amtaller than Sudheer. Rajesh :

Go towards west to reach the stadium.

Sudheer:

Rajesh is not shorter than me.

Praveen is the tallest.

Praveen:

Both the statements of Rajesh are true. I am the tallest. Which of the following statements is true?

(A) The east ward road leads to the beach. (B) Praveen is not the tallest.

- (C) Sudheer is the shortest
- (D) None of these

Directions for questions 6 and 7. These questions are

In a class Pratap, Rajesh and Mitra are the top three In a class reach, responsible and the same are the top three rankers. Each person among them gives two replies to any question, one of which is true and the other is false any question, one of the other is false (in any order). When asked about their ranks in the class

Pratap: (I) I did not get the first rank,

(II) Mitra got the first rank,

Rajesh: (1) I did not get the first rank, (II) Pratap got the third rank

(1) I did not get the first rank Mitra:

(II) Rajesh did not get the first rank

North.

North.

North.

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LOGICAL ABILITY HANDOUT

(Analytical Puzzles - Binary Logic and QBR)

Ref: LAHO1031310

Directions for questions 1 to 5: Select the correct alternative from the given choices.

- Two boys A and B made the following statements regarding their heights.
 - A: My height in inches numerically is neither a perfect square nor a perfect cube. My height is more than 80 inches
 - B: I am not shorter than A. The digits used to express the height of A (in inches) are not the same as those used to express my height in inches.

Find the heights of A and B respectively in inches, if it is known that all the statements of A and B are false.

- (A) A 72, B 27
- (B) A-64, B-46
- (C) A 36, B 63
- (D) A-27, B-72
- When three suspects of a theft were interrogated, they replied as follows. Each of then belongs to a unique category among truth tellers (who always speak truth), liars (who always lie) and alternators (who alternate between truth and lie, in any order).

They replied as follows:

- Karan:
- 1. I am not the thief.
- Sharukh is the liar. 2.
- Johar:
- Karan is the thief. I am a liar.
- Sharukh:
- Karan is the liar. Johar is not the thief.
- 2.

Who is the truth teller?

- (B) Johar
- (A) Karan (C) Sharukh
- (D) Cannot be determined
- A police officer asked each of the three persons A, B and C about a car that passed by. They made the
 - following statements. The car is black in colour. It went towards North.
 - The car is white in colour. It went towards
 - The car is white in colour. It went towards North. It is known that one of them is a truth teller (always speaks truth), one is a liar (always lies) and the third one is an alternator (always alternates between a true statement and a false statement in any order).

Which of the following is not possible?

- (A) The car is white in colour and went towards South.
- (B) The car is black in colour and went towards
- (C) The car is black in colour and did not go towards South.
- (D) The car is white in colour and went towards North.

The people of the "Bolo-Kaun" tribe always make two statements while realized two statements while replying to any question.

Amar. Akhar and Anthony Amar, Akbar and Anthony belong to "Bolo-Kaun" tribe. One among the three attentions to the first and the three attentions to the attention to the three attentions to the attention to the attention to the attention to the a tribe. One among the three always speaks truth and is known as Truth-teller. is known as Truth-teller, one always speaks truth is known as a liar and one of the law as the second secon known as a liar and one always alternates between the truth and lie in an always alternates known an the truth and lie in any order and is known an alternator. When a salidar and salidar armong alternator. When a police asked them, "Who among you is the murdows?" you is the murderer?", their replies were as follows.

Amar

Akbar is a liar.

I am the murderer. Akbar

Anthony is a liar. Akbar is the murderer.

It is known that only one among Amar, Akbar and Anthony is the murderer. Who is the murderer?

- (A) Amar
- (D) Cannot be determined
- 5. The persons who belong to the "Sahi-nahi" tribe always make two statements while replying to any question, one of which is always true and the other one is always false. Tarun while walking on the road reached a point where the road splits into two roads, one towards east and the other towards west. One of the two roads leads to the stadium. Tarun met three persons Rajesh, Sudheer and Praveen, who belong to the "Sahi-nahi" tribe. Tarun got the following replies when he asked, "Which road leads to the stadium?

I am aller than Sudheer. Rajesh:

Go towards west to reach the stadium.

Raiesh is not shorter than me. Sudheer:

Praveen is the tallest.

Both the statements of Rajesh are true. Praveen:

I am the tallest.

Which of the following statements is true? (A) The east ward road leads to the beach.

- (B) Praveen is not the tallest.
- (C) Sudheer is the shortest.
- (D) None of these

Directions for questions 6 and 7 hese questions are based on the following data.

In a class Pratap, Rajesh and Mitra are the top three rankers. Each person among them gives two replies to any question, one of which is true and the other is false (in any order). When asked about their ranks in the class

Pratap: (I) I did not get the first rank

- (II) Mitra got the first rank,
- Rajesh: (I) I did not get the first rank
- (II) Pratap got the third rank (I) I did not get the first rank Mitra:
 - (II) Rajesh did not get the first rank

North

North

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			1 39
100			different the
Who	got the first rank?		13. Mr. Jacob has eight children each of a different the the The sum of the ages of his children is what is the youngest among them is 7 years old. age of the eldest child? (A) 14 (B) 15 (C) 13 (different age. the the part of the part of the eldest child? (D) 16 (D) 16
(A)	Rajesh Rajesh		13. Mr. Jacob has eight
(C)	Pratep	(b) Milia	vouncest among them is 7 years old
		(D) Cannot be determined	age of the eldest child? (D)
Wha	at is Mitra's rank?		
(A)	Frist rank?	(8)	
(C)	Third	(B) Second	14. Mr.Choochoo went to a five star hotel. 10 10 galare inner hall of the hotel one has to cross people are each one guarded by a different guard to the allowed to take chocolates with them to chocolates with them to chocolates with them to chocolate and the required one chocolate per box Mr.Choochoo
		(D) Cannot be determined	inner hall of the hotel one has to cross people inner hall of the hotel one has to cross people each one guarded by a different guard to the inner allowed to take chocolates with them to chocolates hall, provided one chocolate per box Mr. Choocach hall, provided one chocolate per box Mr. Choocach hall, provided in given to each guard, glates in each
ectio	ons for questions	9 4a 40: Th	each one guarded by a different them to chocolate
sed o	n the following data	8 to 10: These questions are	each one guarded by a different guard to the little allowed to take chocolates with them of chocolates hall, provided one chocolate per box Mr. Choochoo being carried is given to each guard. Mr. Choochoo was carrying 10 boxes with 10 chocolates in each was carrying 10 boxes with 10 chocolates an number of
	0		hall, provided one chocolate per box Mr. Choocolate being carried is given to each guard. When the carrying 10 boxes with 10 chocolates in each box. Not more than ten chocolates can number of the maximum schoolates and the maximum schoolates.
ui pe	rsons - Pramod P	Pranav, Prashant and Prabha	
llevba	different game	Pranav, Prashant and Prabha among Basketball, Football,	was carrying to be then ten chocolates can number after
O State	and Cricket.	among Basketball, Football, These four persons make	box Not Mhat' is the maximum
ler, w	ho absolute and of the	These four persons make ese four one person is a truth	was carrying 10 boxes with 10 chocus be placed of box. Not more than ten chocolates can number one box. What is the maximum one box what is the maximum of chocolates that remain with Mr.Choochoo after with the maximum of the chocolates that remain with Mr.Choochoo after one chocolates that remain with Mr.Choochoochoo after one chocolates that remain with Mr.Choochoochoochoochoochoochoochoochoochoo
vays	lies and har of the	ruth; one person is a liar, who	assessing all the 10 dates:
e sta	atement followed	are alternators who make a	(A) 10 (B) 17 (C) 26
lowing	g are the statements	m are alternators who make a by a false statement. The made by the four players.	for questions 15 and 16: These questions
,	s and the statements	made by the four players.	(A) 10 (B) 17 (C) 26 Directions for questions 15 and 16: These questions are based on the following data.
amod		volleyball.	are based on the following game. It
	Prashant does	s not play football.	are based on the following data. P. Q. R and S are 4 people, playing a betting game. In any match, one of the persons will be the loser and the loser has to double the amounts of others. They bet of the persons will be the second, third and
anav:	I play basketb		any match, one of the persons will be the loser any match, one of the persons will be the loser than to double the amounts of others. They bet of loser has to double the amounts of others. At the four matches and the loser in the first, second, third and the loser in the first, second, the loser in the first is the loser in th
	Prashant play		loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others. They loser has to double the amounts of others.
root-		*	- C - C - C - C - C - C - C - C - C - C
rasha		not play volleyball.	at the four matches each of them had \$2500
		not play Basketball.	end of the tours the second
rabhu	: Pramod plays	cricket	15. Who among the following started with the second
	Prashant play	/s volleyball	lowest amount.
160	no io the tent to the		(A) P (B) Q (D) S
	ho is the truth te ller?) Promod	(B) Pranav	(C) R (D) S
•) Prashant	(D) Prebhu	16. How much did P win or lose?
, ,	,		(A) Lost ₹1600 (B) Lost ₹27200
. W	ha playe ericket?		(A) Lost ₹1000 (C) Won ₹11200 (D) Won ₹17600
	ho plays cricket?	and the state of t	(C) VV011 (11200
(A) Pramod	(B) Prashant	(6) ************************************
(A		(B) Prashant (D) Prabhu	Directions for questions 17 to 20: Select the correct
(A (C) Pramod) Prnav	(B) Prashant (D) Prabhu	Directions for questions 17 to 20: Select the correct alternative from the following given choices.
(A (C 0. Pr) Pramod) Prnav ashant is a	(D) Prabhu	Directions for questions 17 to 20: Select the correct alternative from the following given choices.
(A (C 0. Pr (A) Pramod) Prnav ashant is a) Truth teller	(D) Prabhu	Directions for questions 17 to 20: Select the correct alternative from the following given choices. 17. A monkey is at the centre of a rope tied between two poles A and B which are 14 feet apart. The monkey is at the centre of a rope tied between two poles A and B which are 14 feet apart.
(A (C 0. Pr (A (C	Pramod Prnav ashant is a Truth teller Alternater	(D) Prabhu (B) Liar (D) Cannot be determined	Directions for questions 17 to 20: Select the correct alternative from the following given choices. 17. A monkey is at the centre of a rope tied between two poles A and B which are 14 feet apart. The monkey can cover a distance of exactly 3 feet towards poles.
(A (C 0. Pr (A (C) Pramod) Prnav ashant is a) Truth teller) Alternater	(D) Prabhu (B) Liar (D) Cannot be determined s 11 to 14: Select the correct	Directions for questions 17 to 20: Select the correct alternative from the following given choices. 17. A monkey is at the centre of a rope tied between two poles A and B which are 14 feet apart. The monker can cover a distance of exactly 3 feet towards pole A and exactly 1 foot towards pole B in one jump. If
(A (C 0. Pr (A (C	Pramod Prnav ashant is a Truth teller Alternater ions for questions tive from the given	(D) Prabhu (B) Liar (D) Cannot be determined s 11 to 14: Select the correct choices.	Directions for questions 17 to 20: Select the correct alternative from the following given choices. 17. A monkey is at the centre of a rope tied between two poles A and B which are 14 feet apart. The monke can cover a distance of exactly 3 feet towards pole A and exactly 1 foot towards pole B in one jump. If has to reach one of the ends after exactly 31 jumps
(A (C 0. Pr (A (C	Pramod Prnav ashant is a Truth teller Alternater ions for questions ative from the given	(D) Prabhu (B) Liar (D) Cannot be determined s 11 to 14: Select the correct choices.	Directions for questions 17 to 20: Select the correct alternative from the following given choices. 17. A monkey is at the centre of a rope tied between two poles A and B which are 14 feet apart. The monked can cover a distance of exactly 3 feet towards pole A and exactly 1 foot towards pole B in one jump. If has to reach one of the ends after exactly 31 jumps on which pole will it end up?
(A (C 10. Pr (A (C Direct) Pramod) Prnav ashant is a) Truth teller) Alternater ions for questions ative from the given here are six boxes	(B) Liar (D) Cannot be determined s 11 to 14: Select the correct choices. s. In each box two balls are	Directions for questions 17 to 20: Select the correct alternative from the following given choices. 17. A monkey is at the centre of a rope tied between two poles A and B which are 14 feet apart. The monker can cover a distance of exactly 3 feet towards pole A and exactly 1 foot towards pole B in one jump. If has to reach one of the ends after exactly 31 jumps on which pole will it end up? (A) at pole A
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