CAT 2023 25 MUST DO QUANT

With Video Solution



Prepared By **TEAM AzuCATion**

Prepared For Competitive Exams



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QUESTIONS

Q. 1) When a number is divided by 6 and 35 remainders are 5 and 7 then what would be remainder when 11 times of the number is divided by 15





Q. 10) A husband alone can do a piece of work in 60 hours & wife alone in 40 hours, but due to a baby who always destroy their work they together take 16 more hours to complete their work Then in how many days baby alone can destroy all the work.

	a. 30	b. 60	c. 120	d. NoT
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Q. 11) In Jhumri Tillaiya a Paan-wala priced his beedi at 85 paisa per beedi, but after budget, he reduced the price of beedi and sold beedi of Rs.77.28 in a day. Then what is the total number of beedies he sold in a day? AZUCATION AZUCATION AZUCATION

a.37 b. 47 c. 84 d. 92

Q. 12) which one is largest among all options

a. $12^{13} + 14^{15}$ b. $13^{12} + 15^{14}$ c. $12^{15} + 14^{13}$ d. $15^{12} + 13^{14}$

Q. 13) If diagonals of a parallelogram are 30cm and 10 cm then among the options which could be sides of parallelogram

a. 22 cm & 4 cm b. 20cm & 10 cm c. a & b both possible d. NoT Join Our Telegram Chanel

Must Do 25 Questions Part -	- 1	MATHS BY AMIYA
Q. 14). If O is centre of what is the measu	the circle, angle DOC = 42° th rement of angle BFC	
a. 42° b. 68 c. 69° d. No	° T	A O B
AZUCATION Q. 15 An alloy X consis of 5% Cadmium and 10 14 kg of zinc for his ex X costs 40 paisa per kg his requirement	AZUCATION its of 10% Cadmium and 6% zi % zinc. If he needs at least 14 periment. If alloy X costs 60 j , What is the minimum cost h	AZUCATION nc and alloy Y consists kg of Cadmium and paisa per kg and alloy e would occur to fulfil
a. Rs.72 c. Rs.92	b. Rs.82 d. None of these	
AZUCATION Q. 16 If A, B, C, Z an then find minimum pos	A ZUCATION re 26 positive numbers such t ssible value of $\frac{1}{A} + \frac{1}{B} + \frac{1}{c} + \dots + \frac{1}{z}$	AZUCATION hat A+B+C++Z = 13 ,
a. 2 b. 13	c. 26 d. 52	e. NoT
Q. 17 What is the sum	of last two digits of $1^{17} + 2^{17} + 2^{17}$	+ 3^{17} ++99 ¹⁷
a. 0 b. 10 c. 18	d. NOT	AZUCATION
Q. 18 If 3cm, 4cm and 5 triangle is	5cm are length of altitudes of	a triangle then
a. Acute angled triangle c. Right angled triangle	b. Obtuse angled triangle d. Not po <mark>ss</mark> ible	,
AZUCATION Q. 19) The smallest pe	AZUCATION rfect square which is divisible	AZUCATION e by 8! is
a. 564,480 b. 40	3,200 c. 2,822,400	d. 604,800
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Q. 20. If a, d, c, d are different positive integers such that



then among the options which one is a possible value for a + b + c + d

a. 10 b. 17 c. 14 d. 25

AZUCATION

Q. 21.
$$\left(1 - \frac{16}{1}\right) \left(1 - \frac{16}{2}\right) \left(1 - \frac{16}{3}\right) \left(1 - \frac{16}{4}\right) \dots \left(1 - \frac{16}{50}\right) = ???$$

a. -16 AZUCATION AZUCATION AZUCATION

Q. 22 If in ABC, **AB = 6 cm**, **AC= 8 cm** and angle **ABC = 60**° then what is the perimeter of triangle, then what is the perimeter of triangle.

a. $17 + \sqrt{37}$ b. $17 - \sqrt{37}$ c. (a) or (b) d. NoT

Q. 23) If "abc" is a three digit number then abc + bca + cab is always divisible by

a. 11 b. 9 c. 47 d. 37



 $Q.25(2^3 + 4^3 + 6^3 + \dots + 20^3) - (1^3 + 3^3 + 5^3 + \dots + 19^3) = ?$







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Q. 7) Product of first 24 prime number is not divisible by



Q. 10) A husband alone can do a piece of work in 60 hours & wife alone in 40 hours, but due to a baby who always destroy their work they together take 16 more hours to complete their work Then in how many days baby alone can destroy all the work.



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Q. 13) If diagonals of a parallelogram are 30cm and 10 cm then among the options which could be sides of parallelogram

a. 22 cm & 4 c NoT	em b	. 20cm & 10 cm	c. a & b both possible	<mark>d.</mark>	
Q. 14). If O is	s centre of t	he circle, angle DOC	=42° CATION		
then what is t	he measure	ment of angle BFC	F		
				В	
a. 42°	b. 68°				
<mark>c. 69°</mark>					
Q. 15 An alloy	X CONSISTS	of 10% Cadmium and	AZUCATION d 6% zinc and alloy Y consi	sts	
of 5% Cadmiu	m and 10%	zinc. If he needs at le	east 14 kg of Cadmium and	L	
14 kg of zinc	for his expe isa ner kø. V	riment. If alloy X cos Vhat is the minimum	sts 60 paisa per kg and allo cost he would occur to ful	oy fil	
his requireme	ent			~~~	
9 Rc 79	h	Ba 82		d	
None of these	U U	. 105.06	C. 13.78	u.	
AZUC	CATION	AZUCATION	AZUCATION		
Q. 16 If A, B	, C , Z are 3	36 positive numbers	such that A+B+C++Z = 1	3,	
then find minimum possible value of $\frac{1}{4} + \frac{1}{8} + \frac{1}{6} + \dots + \frac{1}{7}$					
	-				
a. 2	b. 13	c. 26	d. 52 e. NoI	1	
a. 2	b. 13	c. 26	<mark>d. 52</mark> e. No'I	1	
a. 2 Q. 17 What is	b. 13	c. 26 last two digits of 1 ¹⁷	d. 52 e. NoT + 2 ¹⁷ + 3 ¹⁷ + + 99 ¹⁷	1	
a. 2 Q. 17 What is	b. 13 s the sum of	c. 26 last two digits of 1 ¹⁷	d. 52 e. NoT + 2 ¹⁷ + 3 ¹⁷ + + 99 ¹⁷ AZUCATION	1	
a. 2 Q. 17 What is a. 0 b. 10	b. 13 s the sum of c. 18	c. 26 last two digits of 1 ¹⁷ d. NoT	d. 52 + 2 ¹⁷ + 3 ¹⁷ + + 99 ¹⁷ AZUCATION	1	
a. 2 Q. 17 What is a. 0 b. 10	b. 13 s the sum of CAC: 18	c. 26 last two digits of 1 ¹⁷ d. NoTUCATION	d. 52 + 2 ¹⁷ + 3 ¹⁷ + + 99 ¹⁷ AZUCATION	1	
a. 2 Q. 17 What is a. 0 b. 10 Q. 18 If 3cm, triangle is	b. 13 5 the sum of C. 18 4cm and 5cm	c. 26 last two digits of 1 ¹⁷ d. NOT n are length of altitu	d. 52 + 2 ¹⁷ + 3 ¹⁷ + + 99 ¹⁷ AZUCATION ades of a triangle then	1	
a. 2 Q. 17 What is a. 0 b. 10 Q. 18 If 3cm, triangle is	b. 13 s the sum of C. 18 4cm and 5cm d triangle	c. 26 last two digits of 1 ¹⁷ d. NOT m are length of altitu	d. 52 e. NoT + 2 ¹⁷ + 3 ¹⁷ + + 99 ¹⁷ AZUCATION ades of a triangle then	T	
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 a. 2 Q. 17 What is a. 0 b. 10 Q. 18 If 3cm, triangle is a. Acute angle c. Right angle 	b. 13 5 the sum of C. 18 4cm and 5cm ed triangle d triangle	c. 26 last two digits of 1 ¹⁷ d. NOT m are length of altitu b. Obtuse angled d. Not possible	d. 52 e. NoT + 2 ¹⁷ + 3 ¹⁷ + +99 ¹⁷ AZUCATION ades of a triangle then triangle		
a. 2 Q. 17 What is a. 0 b. 10 Q. 18 If 3cm, triangle is a. Acute angle c. Right angled	b. 13 s the sum of C. 18 4cm and 5cm ed triangle d triangle 16	c. 26 last two digits of 1 ¹⁷ d. NOT m are length of altitu b. Obtuse angled d. Not possible	d. 52 + 2 ¹⁷ + 3 ¹⁷ + +99 ¹⁷ AZUCATION ades of a triangle then triangle AZUCATION CAT 2022 CLICK HERE	1	

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Must Do 25 Questions Part - 1



Q. 19) The smallest perfect square which is divisible by 8! is

a. 564,480	b. 403,200	<mark>c. 2,822,400</mark>	d. 604,800
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Q. 20. If a, d, c, d are different positive integers such that AZUCATION

$$\frac{1}{a + \frac{1}{b + \frac{1}{c + \frac{1}{d}}}} = \frac{29}{154}$$

then among the options which one is a possible value for a + b + c + d

b. 17 🔨 **c. 14** a. 10 d. 25 AZUCATION AZUCATION AZUCATION $Q. 21. \left(1-\frac{16}{1}\right) \left(1-\frac{16}{2}\right) \left(1-\frac{16}{3}\right) \left(1-\frac{16}{4}\right) \dots \left(1-\frac{16}{50}\right) =???$ a. -16 b. 1 <mark>c.0</mark> d. NoT

Q. 22 If in ABC, AB = 6 cm, AC= 8 cm and angle ABC = 60° then what is the perimeter of triangle, then what is the perimeter of triangle.

a. 17 + \sqrt{37} b. 17 - $\sqrt{37}$ c. (a) or (b) d. NoT

Q. 23) If "abc" is a three digit number then abc + bca + cab is always divisible by

c. 47 a. 11 b. 9 d. 37 AZUCATION AZUCATION AZUCATION Q. 24 $\frac{\sqrt{110-\sqrt{110-\sqrt{110-\sqrt{110-\cdots}}}}}{\sqrt{90+\sqrt{90+\sqrt{90+\cdots}}}}$ Ans: 1 AZUCATION AZUCATION AZUCATION $Q.25(2^3 + 4^3 + 6^3 + \dots + 20^3) - (1^3 + 3^3 + 5^3 + \dots + 19^3) = ?$ **a. 4300** b. 4200 c. 4100 d. 4000



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