		Reg. No. :			
		<b>Question Pape</b>	r Code: 54031		
	B.E.	/ B.Tech. DEGREE EX	AMINATION, SE	P 2020	
		Fourth Se	mester		
		Civil Engi	neering		
	15UGS43	1 - REASONING AND	QUANTITATIVE	APTITUDE	
		(Common to A)	LL branches)		
		(Regulatio	n 2015)		
Dur	ation: One hour	PART A - (30x 1	1 = 30 Marks)	Maximum: 30 Marks	
	(A	answer any Thirty of th	e following Quest	ions)	
1. Which of the following not a pair of co-prime numbers?					
	(a) (4, 9)	(b) (9, 14)	(c) (3, 27)	(d) (5, 13)	
2.	Which of the following	ing not a prime number?			
	(a) 31	(b) 41	(c) 71	(d) 91	
3.	Find the numbers of	divisors/factors of 127?			
	(a) 2	(b) 3	(c) 8	(d) 9	
4.	Find the unit digit of $789^{263} + 485^{529} + 902^{335}$				
	(a) 2	(b) 4	(c) 6	(d) 5	
5.	The sum of first 15 even numbers is?				
	(a) 225	(b) 120	(c) 240	(d) 105	
6.	Find the value of $1^2+2^2+3^2+\ldots+11^2=?$				
	(a) 66	(b) 132	(c) 385	(d) 506	
7.	Number of squares in the 8*8 chess board is				
	(a) 64	(b) 65	(c) 204	(d) 224	

Find the number of 3digit number upto 400.which are divisible by 11. 8.

(a) 25

4.

(b) 26

(c) 27

(d) 28

Two numbers are 48 and 64. If HCF of two number is 16. Find the LCM?

Find the highest co (a) 125	ommon factor of 300,	450 and 525.				
(a) 125		Find the highest common factor of 300, 450 and 525.				
	(b) 50	(c) 75	(d) 25			
The average of first 50 natural numbers is?						
(a) 12.25	(b) 21.25	(c) 25	(d) 25.5			
The average of first 20 multiples of 6?						
(a) 63	(b) 62.5	(c) 60	(d) 65			
The average of 7 consecutive number is 20. The largest of these numbers is						
(a) 20	(b) 22	(c) 23	(d) 24			
63% of $3\frac{4}{7}$ is?						
(a) 2.25	(b) 2.40	(c) 2.50	(d) 2.75			
40% of X120 Find the value of $X = ?$						
(a) 300	(b) 600	(c) 200	(d) 240			
If A is 35% greate	If A is 35% greater than B then how much percentage is B smaller than A?					
(a) 16 2/3%	(b) 18 2/3%	(c) 16%	(d) None of these			
If P% of P is 36 th	If P% of P is 36 then, P is equal to					
(a) 15	(b) 60	(c) 600	(d) 3600			
What is present age of X in years?						
(a) 35	(b) 42	(c) 49	(d) None of these			
A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of the son is.						
(a) 14 years	(b) 18 years	(c) 20 years	(d) 22 years			
By selling a book for 270, 20% profit was earned. What is the cost price of the book?						
(a) 216	(b) 226	(c) 254	(d) 225			
The cost price of 6 pens is equal to the selling price of 4 pens. Find the profit percent						
(a) 25%	(b) 60 %	(c) 50%	(d) 80%			
	The average of fire (a) 12.25 The average of fire (a) 63 The average of 7 c (a) 20 63% of 3 \frac{4}{7} is? (a) 2.25 40% of X120 Fine (a) 300 If A is 35% greate (a) 16 2/3% If P% of P is 36 th (a) 15 What is present age (a) 35 A man is 24 years age of his son. The (a) 14 years By selling a book the book? (a) 216 The cost price of 6 percent	The average of first 50 natural numbers  (a) 12.25 (b) 21.25  The average of first 20 multiples of 6?  (a) 63 (b) 62.5  The average of 7 consecutive number is  (a) 20 (b) 22  63% of 3\frac{4}{7} is?  (a) 2.25 (b) 2.40  40% of X120 Find the value of X =?  (a) 300 (b) 600  If A is 35% greater than B then how mu  (a) 16 2/3% (b) 18 2/3%  If P% of P is 36 then, P is equal to  (a) 15 (b) 60  What is present age of X in years?  (a) 35 (b) 42  A man is 24 years older than his son. In age of his son. The present age of the so  (a) 14 years (b) 18 years  By selling a book for 270, 20% profit w the book?  (a) 216 (b) 226  The cost price of 6 pens is equal to the spercent	The average of first 50 natural numbers is?  (a) 12.25 (b) 21.25 (c) 25  The average of first 20 multiples of 6?  (a) 63 (b) 62.5 (c) 60  The average of 7 consecutive number is 20. The largest of these (a) 20 (b) 22 (c) 23  63% of 3 4/7 is?  (a) 2.25 (b) 2.40 (c) 2.50  40% of X120 Find the value of X =?  (a) 300 (b) 600 (c) 200  If A is 35% greater than B then how much percentage is B small (a) 16 2/3% (b) 18 2/3% (c) 16%  If P% of P is 36 then, P is equal to  (a) 15 (b) 60 (c) 600  What is present age of X in years?  (a) 35 (b) 42 (c) 49  A man is 24 years older than his son. In two years, his age will age of his son. The present age of the son is.  (a) 14 years (b) 18 years (c) 20 years  By selling a book for 270, 20% profit was earned. What is the complex of the percent of 6 pens is equal to the selling price of 4 pens. Further than the content of the percent of 6 pens is equal to the selling price of 4 pens. Further than the content of the percent of 5 pens is equal to the selling price of 4 pens. Further than the content of the percent of 5 pens is equal to the selling price of 4 pens. Further than the content of the percent of 5 pens is equal to the selling price of 4 pens. Further than the content of the percent of 5 pens is equal to the selling price of 4 pens. Further than the percent of 5 pens is equal to the selling price of 4 pens. Further than the percent of 5 pens is equal to the selling price of 4 pens. Further than the percent of 5 pens is equal to the selling price of 4 pens. Further than the percent of 5 pens is equal to the selling price of 4 pens. Further than the percent of 5 pens is equal to the selling price of 4 pens. Further than the percent of 5 pens is equal to the selling price of 4 pens. Further than the percent of 5 pens is equal to the selling price of 4 pens.			

22. A sum of money fetched an interest of Rs. 2400 in 3 years at an interest rate

	of 8%. Find the sum				
	(a) Rs. 8000	(b) Rs. 13000	(c) Rs. 16000	(d) Rs. 16000	
23.	A sum of Rs. 2500 at compound interest at 20% per annum for 2 years amount to				
	(a) Rs. 3600	(b) Rs. 8100	(c) Rs. 3000	(d) Rs. 8082	
24.	If a: $b = 3$ : 5 and b: $c = 4$ : 2 find a: b: $c = ?$				
	(a) 3: 8: 5	(b) 3: 6: 8	(c) 6: 10: 5	(d) 4: 6: 3	
25.	The ratio of three numbers is 2:3:1 and their sum is 216. The first number of the three numbers is?				
	(a) 18	(b) 72	(c) 27	(d) 26	
26.	What is the value of x in 3: 12:: x: 6?				
	(a) 9.69	(b) 5.7	(c) 7.5	(d) 1.5	
27.	The speed of the car is 10 m/s. What is the speed in kmph?				
	(a) 25 kmph	(b) 30 kmph	(c) 50 kmph	(d) 36 kmph	
28.	A person crosses a 400 m long street in 90 seconds. What is his speed in km/hr?				
	(a) 16	(b) 7.2	(c) 8.4	(d) 10	
29.	A person crosses a 600 m long street in 5 minutes. What is his speed in km/hr?				
	(a) 3.6	(b) 7.2	(c) 8.4	(d) 10	
30.	If 6 men take 9 days to complete a work, how many men can complete the work in 3 days?				
	(a) 2 men	(b)12 men	(c) 9 men	(d) 18 men	
31.	A can do a piece of work in 10 days and B can do the same work in 15 days. How long will they take if both work together?				
	(a) 6 days	(b) 8 days	(c) 4 days	(d) 5 days	
32.	Three pipes can fill a tank in 6, 10 and 15 hours respectively. If they are opened together, how long does it take to fill the tank?				
	(a) 3 Hours	(b) 30 Hours	(c) 10 Hours	(d) 3.3 Hours	

33. A train of length 600 m crosses a Pole in 4 min. 30 seconds. Find

	the speed of the train				
	(a) 6 kmph	(b) 5 kmph	(c) 9 kmph	(d) 8 kmph	
34.	The number of new words that can be formed by rearranging the letters of the word 'ALIVE' is				
	(a) 23	(b) 24	(c) 119	(d) 120	
35.	Find 8P3				
	(a) 336	(b) 504	(c) 1	(d) 0	
36.	5. The angle between the minute hand and hour hand of a clock when the time is 8.30 is				
	(a) 80°	(b) 70°	(c) 75°	(d) 85°	
37.	. How many times are the hands of a clock coincide in a day				
	(a) 44	(b) 48	(c) 24	(d) 22	
38.	3. Today is Friday, after 126 days, it will be:				
	(a) Sunday	(b) Tuesday	(c) Friday	(d) Monday	
39. Today is Tuesday, after 94 days, it will be:					
	(a) Sunday	(b) Tuesday	(c) Friday	(d) Monday	
40.	On 8 <sup>th</sup> September 2004, it was Monday. What was the day of the week on 8th September 2003?				
	(a) Tuesday	(b) Monday	(c) Sunday	(d) Saturday	