Reg. No.:					
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Question Paper Code: 5400A

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Fourth Semester

Civil Engineerir

		Civil Er	igineering		
	15UGS431 -	REASONING AN	D QUANTITATIVE	APTITUDE	
		(Common to	ALL branches)		
		(Regula	tion 2015)		
I	Ouration: Three hours	Answer Any	50 Questions	Maximum: 100 Marks	
		PART A - (50	x 2 = 100 Marks)		
1.	What is the unit digit in	n the product (6252)	3 - 38122) ?		
	(a) 0	(b) 2	(c) 8	(d) 6	
2.	How many numbers from	om 22 to 90 are exa	ctly divisible by 11?		
	(a) 6	(b) 7	(c) 8	(d) 9	
3.	What least number mus	What least number must be added to 3000 to obtain a number exactly divisible b			
	(a) 2	(b) 8	(c) 11	(d) 17	
4.	The sum of three prime the numbers is	e numbers is 100. Is	f one of them exceeds	another by 36 then one of	
	(a) 7	(b) 29	(c) 41	(d) 67	
5.	Find unit digit in (515)	$^{31} + (515)^{90}$:			
	(a) 0	(b) 1	(c) 5	(d) 4	
6.	The HCF of two prime	numbers is			
	(a) Their product	(b) their sum	(c) one	(d) zero	
7.	Find the greatest numb respectively	er, which on dividing	ng 1657 and 2037 leav	ves remainders 6 and 5	

(c) 114

(d) 108

(a) 127

(b) 132

8.	The LCM of two prime	numbers is		
	(a) Their product	(b) their sum	(c) one	(d) zero
9.	If a clock strikes once a will it strike in a day	at 1 O'clock, twice at	2 O'clock and so on,	, how many times
	(a) 78	(b) 156	(c) 144	(d) None of these
10.	Find the largest number	r of 4-digits divisible	by 12, 15 and 18.	
	(a) 9900	(b) 9750	(c) 9450	(d) 9000
11.	The average of 13 result results is 49. Find the 7	_	e of first 7 results is 5	52 and that of last 7
	(a) 50	(b) 52	(c) 56	(d) 57
12.	Find the number of 3 di	igit numbers, which a	are divisible by 9	
	(a) 99	(b) 100	(c) 101	(d) 98
13.	The average age of a cl average increases by or		•	s age is also included, the
	(a) 49	(b) 48	(c) 47	(d) 50
14.	The sum of all even nat	tural numbers betwee	n 1 and 31 is	
	(a) 16	(b) 128	(c) 240	(d) 512
15.	A man's average daily during May. Find the A	-	•	during April and Rs. 17 nths.
	(a) 13.35	(b) 14.22	(c) 14.33	(d) 13.33
16.	Find the average of firs	t ten multiples of 3?		
	(a) 13	(b) 15	(c) 18	(d) 16.5
17.	In a cricket match, R percentage of his runs of		•	aries and 3 sixes. What ets?
	(a) 70%	(b) 50%	(c) 35%	(d) 30%
18.	Number decreased by 2	20% gives 480. The n	umber is	
	(a) 500	(b) 600	(c) 550	(d) None of these
19.	If the average of seven included number is	numbers is 35. If one	e is included. The ave	erage becomes 40. The
	(a) 70	(b) 75	(c) 65	(d) 80

20.	Find the average of all r	numbers between 5 ar	nd 49 which are divis	sible by 5.
	(a) 20	(b) 25	(c) 30	(d) 35
21.	If the length of the recta change of the area is	ingle is decreased by	20% and breadth is i	ncreased by 25% then
	(a) 5%	(b) 20 %	(c) 0%	(d) 10%
22.	A year ago, the father wage. Find their present a		nis son. Now his age	is the square of his son's
	(a) 7 years, 49 years	s (b) 8 years, 64 years	s (c) 6 years, 36 years	s (d) 5 years, 25 years
23.	40% of a number is 80.	What is 30% of one	– fourth of the number	er?
	(a) 60	(b) 30	(c) 15	(d) 10
24.	The sum of ages of Sa times more than Sarvesl		•	back father's age was 4
	(a) 11 years	(b) 8 years	(c) 12 years	(d) 16 years
25.	If 20% of a certain num	ber is 80, then what i	s 30% of that numbe	r is
	(a) 100	(b) 120	(c) 150	(d) 140
26.	A man buys a cycle for the cycle?	Rs.1400 and sells it	at a loss of 15%. W	That is the selling price of
	(a) Rs. 1090	(b) Rs. 1160	(c) Rs. 1190	(d) Rs. 1202
27.	After 5 years, age of Ne	elam would be 28 ye	ears. What was her ag	ge 8 years ago?
	(a) 15	(b) 20	(c) 25	(d) 30
28.	If the cost price of 8 arts percentage	icles is same as the so	elling price of 10 arti	cles. Find the gain or loss
	(a) 20% gain	(b) 20% loss	(c) 30% gain	(d) 30% loss
29.	A sum of Rs. 7500 at co	ompound interest at 4	% per annum for 2 y	ears amount to
	(a) Rs. 7800	(b) Rs. 8100	(c) Rs. 8112	(d) Rs. 8082
30.	The sum of the present a was five times the age of	_	·	x years ago, father's age
	(a) 52 years	(b) 20 years	(c) 32 years	(d) 40 years
31.	The cost price of 6 pens	is equal to the sellin	g price of 4 pens. Fir	nd the profit percent
	(a) 25%	(b) 60%	(c) 50%	(d) 80%

32.	Every year an amount increases by 1/8 th of itself. How much will it be after two years present value Rs.64000.			it be after two years if its
	(a) Rs. 64000	(b) Rs. 75000	(c) Rs. 81000	(d) Rs. 80000
33.	A sum of money becompound interest. The		three years and Rs.	4400 after six years or
	(a) Rs. 1400	(b) Rs. 1100	(c) Rs. 1000	(d) Rs.1200
34.	By selling a book for 2	70, 20% profit was ea	arned. What is the cos	st price of the book?
	(a) 216	(b) 226	(c) 254	(d) 225
35.	If $x : y = 9 : 4$ then $(7x - 2)$	-3y): $(7x + 3y) = ?$		
	(a) 51 : 76	(b) 6:13	(c) 51:75	(d) None of these
36.	A sum of money fetchethe sum	ed an interest of Rs.	3840 in 4 years at an	interest rate of 8%. Find
	(a) Rs. 8000	(b) Rs. 12000	(c) Rs. 16000	(d) Rs. 19200
37.	If a dozen mirrors are f	allen down. The ratio	between broken and	unbroken mirrors is
	(a) 2 : 3	(b) 3:4	(c) 5:7	(d) 5:4
38.	At what rate per annum	n a sum of Rs. 2400/-	will become Rs. 360	0/- in 5 years
	(a) 10%	(b) 15%	(c) 20%	(d) 12%
39.	The ratio of boys to girl girls are there in the cla		class has 16 more bo	ys than girls. How many
	(a) 16	(b) 6	(c) 24	(d) 64
40.	Find the principle, inter	rest on Rs.900/- at 6%	6 p.a. for 3 years?	
	(a) Rs.5000	(b) Rs.4500	(c) Rs.3500	(d) Rs.2200
41.	A man walking at the bridge (in meters) is	rate of 5 km/hr cros	ses a bridge in 15 m	ninutes. The length of the
	(a) 600	(b) 750	(c) 1000	(d) 1250
42.	The ratio of two number	ers is 3:4 and their sur	m is 28. The greater of	of the two numbers is?
	(a) 8	(b) 12	(c) 14	(d) 16
43.	A motorist travels for 6 distance traveled by him		at 60 kmph and rest 4	8 kmph. Find the
	(a) 324 km	(b) 320 km	(c) 300 km	(d) 340 km

44.	If $a:b=1:2,b:c=3:4$ and c	c:d=2:3 find a:b:c:d?		
	(a) 3:6:8:24	(b) 6:12:16:24	(c) 6:18:24:16	(d) 3:6:2:3
45.	Ram, Shyam and Mohalong will they take to fi	-	work in 12, 15 and 2	0 days respectively. How
	(a) 10 days	(b) 14 days	(c) 12 days	(d) 5 days
46.	A person crosses a 600	m long street in 5 mi	nutes. What is his spo	eed in km/hr?
	(a) 3.6	(b) 7.2	(c) 8.4	(d) 10
47.	* *			ectively. Both are opened ow much longer will the
	(a) 9 ½ min	(b) 7 ½ min	(c) 11 ¼ min	(d) 8 ½ min
48.	A man starts at 3 pm w the speed of 75 Kmph.	_	_	follows him at 4 pm with
	(a) 5 pm	(b) 6 pm	(c) 7 pm	(d) 6.30 pm
49.	320m long train is runn 180m long?	ing at 72 Kmph. hov	w much time it will to	ake to cross a platform of
	(a) 20 sec	(b) 25 sec	(c) 30 sec	(d) 27 sec
50.	If 12 men work 8 hours hours a day can comple			w many men working 12
	(a) 16	(b) 4	(c) 12	(d) 8
51.	Find ⁷ P ₇			
	(a) 4440	(b) 5040	(c) 1	(d) 0
52.	Find ⁷ C ₅			
	(a) 20	(b) 42	(c) 21	(d) 24
53.	36 workers can reap a f required are	ield in 6 days. If the v	work is completed in	4 days, the extra workers
	(a) 10	(b) 25	(c) 18	(d) 15
54.	A can do a work in 24 the work?	days and B can do it	in 8 days. In how m	any days A and B can do
	(a) 20 days	(b) 10 days	(c) 6 days	(d) 8 days

33.	The angle between the i	minute hand and the	nour hand of a clock	when the time is 6.30 is
	(a) 15°	(b) 20°	(c) 18°	(d) 10°
56.	Two pipes A and B can alone takes 60 minutes tank?		•	• • •
	(a) 60 min	(b) 40 min	(c) 30 min	(d) 20 min
57.	When the time in the cle	ock is 7.20, then the	angle between the ha	nds of the clock is
	(a) 100 degrees	(b) 120 degrees	(c) 90 degrees	(d) 110 degrees
58.	Today is Monday. After	r 61 days, it will be		
	(a) Thursday	(b) Tuesday	(c) Wednesday	(d) Saturday
59.	A pipe can fill a tank in tank is full, how much t			is filled in 4 hours. If the
	(a) 10 hours	(b) 11 hours	(c) 12 hours	(d) 9 hours
60.	What was the day of the	e week on 17th June,	1998?	
	(a) Tuesday	(b) Monday	(c) Sunday	(d) Wednesday
61.	Two trains 300m and 40 opposite Directions on p	-	•	d 50kmph respectively in ch other?
	(a) 20 sec	(b) 25 sec	(c) 26 sec	(d) 28 sec
62.	On which week day Au	gust 15, 1947 falls?		
	(a) Tuesday	(b) Monday	(c) Friday	(d) Wednesday
63.	There are 10 yes or no o	questions. In how ma	ny ways can these be	answered
	(a) 1024	(b) 256	(c) 100	(d) 20
64.	March 5, 1999 was on F	Friday, what day of th	ne week will be on M	arch 5, 2000?
	(a) Saturday	(b) Monday	(c) Sunday	(d) Friday
65.	The number of new wor 'ALIVE' is	rds that can be forme	d by rearranging the	letters of the word
	(a) 23	(b) 24	(c) 119	(d) 120
66.	Grish walked 15 m Nor was he from the starting		d South and walked a	another 12 m. How far
	(a) 9 m	(b) 3 m	(c) 18 m	(d) 27 m

67.	67. How many times in a day, are the hands of a clock in straight line but opposite in direction					
	(a) 48	(b) 22	(c) 24	(d)	12	
68.	How many times a	re the hands of a clock a	at right angles in a	day?		
	(a) 22	(b) 44	(c) 38	(d)	48	
69.	You go North, turn you now?	s right, then right again	and then go to the	left .In	which direction are	
	(a) North	(b) West	(c) East	(d)	South	
70.	How many persons	s are there who take both	n tea and coffee bu	t not Mi	lk?	
	(a) 7	(b) 25	(c) 10	(d)	15	
71.	If P is the brother of	of Q, Q is the sister of R	, and R is the fathe	r of S, h	ow is P related to S?	
	(a) Father	(b) Maternal Uncle	(c) Paternal Gra	ındpa	(d) Paternal Uncle	
72.	Today is Friday, af	ter 126 days, it will be				
	(a) Sunday	(b) Tuesday	(c) Friday		(d) Monday	
73.	If B's mother was	A's mother's daughter,	How is A related to	в?		
	(a) Maternal U	ncle (b) Father	(c) Brother		(d) Sister	
74.	74. In a row of 25 boys, Mithun is twelfth from the left and Nitin is eighth from the right. How many boys are between them.					
	(a) 4	(b) 7	(c) 6	(d)	5	
75.	Tree : Forest :: Gra	ass:?				
	(a) Lawn	(b) Field	(c) Garden	(d)	Farm	