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Question Paper Code: 44031

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Fourth Semester

Civil Engineering

14UGS431 - QUALITATIVE AND QUANTITATIVE APTITUDE

		(Common to	ALL branches)			
		(Regulat	tion 2014)			
Ι	Ouration: Three hours			Maximum: 100 Marks		
		Answer Any	50 Questions			
		PART A - (50 x	x 2 = 100 Marks)			
1.	What is the difference	e between the place v	alues of 2 in the num	eral 7229?		
	(a) 20	(b) 200	(c) 180	(d) 18		
2.	How many numbers f	From 22 to 90 are exact	ctly divisible by 11?			
	(a) 6	(b) 7	(c) 8	(d) 9		
3.	Find the Number of fa	actors of 100				
	(a) 9	(b) 2	(c) 4	(d) 10		
4.	Find the highest common factor of 36 and 84					
	(a) 4	(b) 6	(c) 12	(d) 18		
5.	Find the unit digit of t	the expression 216 ⁷⁸⁹	$+991^{254}+632^{161}$?			
	(a) 5	(b) 0	(c) 9	(d) 7		

6. LCM of two numbers is 48 and their HCF is 8. If one of the two numbers is 16, find the

(c) 32

(d) 36

(b) 24

other number

(a) 12

7.	7777 + 777 + 77 + 7	7 = ?			
	(a) 8316	(b) 8459	(c) 8638	(d) 8724	
8. If the average of seven numbers is 35. If one is included. The average becomes 40. included number is					
	(a) 70	(b) 75	(c) 65	(d) 80	
9.	_	nily expenditure is Rs ne Average daily exp	_	Rs.14 during April and Rs. 17 e months?	
	(a) 13.35	(b) 14.22	(c) 14.33	(d) 13.33	
10.	Number decreased	by 20% gives 480. T	he number is		
	(a) 500	(b) 600	(c) 550	(d) None of these	
11.	The sum of first 12	odd numbers is			
	(a) 78	(b) 144	(c) 156	(d) None of these	
12.	If A is 25% greater	than B then how mu	ch percentage is B si	maller than A?	
	(a) 20%	(b) 25%	(c) 28%	(d) 21%	
13.	The ages of two frie years will the ages		5. The sum of their a	ages is 66.After how many	
	(a) 13	(b) 19	(c) 12	(d) None of these	
14.	If a clock strikes or strike in a day?	nce at 1 O'clock, twi	ce at 2 O'clock and	so on, how many times will it	
	(a) 78	(b) 156	(c) 144	(d) None of these	
15.	Find the average of	first ten multiples of	3?		
	(a) 13	(b) 15	(c) 18	(d) 16.5	
16.	By selling a book for	or 270, 20% profit wa	as earned. What is th	ne cost price of the book?	
	(a) 216	(b) 226	(c) 254	(d) 225	
17.		36 girls and 44 boys.		ht of the girls is 40 kg and that e class?	
	(a) 37.25 <i>kg</i>	(b) 37.5 kg	(c) 37 kg	(d) 37.75 kg	

18.	A man bought a second-hand typewriter for Rs.1200 and spent Rs.200 on its repairs. He sold it for Rs.1680. His profit per cent is				
	(a) 20%	(b) 10%	(c) 8%	(d) 16%	
19.	The average of the first	5 prime number is			
	(a) 3.6	(b) 5.6	(c) 5.4	(d) 7	
20.	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	
21.	If the sides of a square a	are decreased by 10%	, find the percentage	decreased by its area?	
	(a) 20%	(b) 19%	(c) 15%	(d) 10%	
22.	A sum of money become compound interest. The		ee years and Rs. 4400	after six years on	
	(a) Rs. 1400	(b) Rs. 1100	(c) Rs. 1000	(d) Rs.1200	
23.	The ratio of three numbers is?	pers is 5:3:4 and their	r sum is 108. The se	cond number of the three	
	(a) 12	(b) 15	(c) 27	(d) 29	
24.	If a dozen mirrors are fa	allen down. The ratio	between broken and	unbroken mirrors is	
	(a) 2 : 3	(b) 3:4	(c) 5:7	(d) 5:4	
25.	40% of a number is 80.	What is 30% of one	fourth of the number	er?	
	(a) 60	(b) 30	(c) 15	(d) 10	
26.	5. A man starts at 3 pm with the speed of 50 Kmph. Another man follows him at 4 pm with the speed of 75 Kmph. When will they meet?				
	(a) 5 pm	(b) 6 pm	(c) 7 pm	(d) 6.30 pm	
27.	The ages of Vikas and I find the age of Nikash?	Nikash are in the ratio	o of 5 : 3. If Vikas is	8 year elder than Nikash,	
	(a) 10	(b) 12	(c) 15	(d) 20	

28.	A can do a work in 24 days and B can do it in 8 days. In how many days A and B can do the work?				
	(a) 20 days	(b) 10 days	(c) 6 days	(d) 8 days	
29.	•	n and Raj differ by of Ram after 4 years.	7. Five years back, I	Raj was twice the age of	
	(a) 16	(b) 20	(c) 21	(d) 25	
30.	10 men can prepare 20 can 24 men prepare 32 t	•	•	Then in how many days	
	(a) 6 days	(b) 10 days	(c) 20 days	(d) 25 days	
31.	The cost price of 6 pens	is equal to the sellin	g price of 4 pens. Fin	d the profit percent	
	(a) 25%	(b) 60%	(c) 50%	(d) 80%	
32.	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	
33.	By selling an article for	Rs. 384, a trader gain	ns 20%. Find the cost	price of article.	
	(a) 160	(b) 240	(c) 320	(d) 480	
34.	How many four digit nu of digits is not allowed)		d using the digits {1,	3, 4, 5, 7, 9} (Repetition	
	(a) 360	(b) 300	(c) 60	(d) 180	
35.	The Difference between interest is	n C.I and S.I on a su	m of Rs. 10000 for t	two years at a rate of 5%	
	(a) Rs. 25	(b) Rs. 20	(c) Rs. 10	(d) Rs. 5	
36.	At what rate of compo years?	ound interest will a s	sum of Rs. 8000 am	ount to Rs. 8820 in two	
	(a) 8%	(b) 10%	(c) 6%	(d) 5%	
37.	When the time in the clo	ock is 7.20, then the a	angle between the har	nds of the clock is	
	(a) 100 degrees	(b) 120 degrees	(c) 90 degrees	(d) 110 degrees	

	(a) 40 years	(b) 50 years	(c) 25 years	(d) 49 years		
39. Solve for x , $2x : 25 = 6 : \frac{x}{3}$						
	(a) 18	(b) 15	(c) 12	(d) 5		
40. W	hich number is on th	e face opposite to 5?				
		6 6 4	5 4 4	2		
	(a) 4	(b) 1	(c) 2	(d) 3		
41. Fi	nd the number of tria	ngles in the given fig	gure.			
	(a) 16	(b) 18	(c) 12	(d) 17		
		ce of 2 km by walking is his average speed?	_	<i>n/hr</i> . He returns back at a		
	(a) 4.5 <i>kmph</i>	(b) 4.8 <i>kmph</i>	(c) 5 <i>kmph</i>	(d) 5.1 kmph		
43. A	person crosses a 600	m long street in 5 mi	inutes. What is his sp	eed in <i>km/hr</i> ?		
	(a) 3.6	(b) 7.2	(c) 8.4	(d) 10		
44. A man walking at the rate of 5 <i>km/hr</i> crosses a bridge in 15 minutes. The length of the bridge (in meters) is:						
	(a) 600	(b) 750	(c) 1000	(d) 1250		
45. In a certain code is, RIPPLE is written as 613382 and LIFE is written as 8192. How is PILLER written in that code?						
	(a) 318826	(b) 318286	(c) 618826	(d) 338816		
46. If	6 men take 9 days to	complete a work, ho	w many men can con	nplete the work in 3 days?		
	(a) 2 men	(b) 12 men	(c) 9 men	(d) 18 men		
		_				

38. How long does it take for a sum of Rs. 2500 to become Rs. 12500 at 10% simple interest?

47.	If 12 men work 8 hour 12 hours a day can comp	•	•	How many men working
	(a) 16	(b) 4	(c) 12	(d) 8
48.			-	simultaneously. If pipe A e B alone take to fill the
	(a) 60 min	(b) 40 min	(c) 30 min	(d) 20 min
49.	Three pipes can fill a ta how long does it take to		ours respectively. If	they are opened together,
	(a) 3 hours	(b) 30 hours	(c) 10 hours	(d) 3.33 hours
50.	A train of length 260 m the train	a crosses a bridge of	length 40 <i>m</i> in 12 se	econds. Find the speed of
	(a) 60 <i>kmph</i>	(b) 25 <i>kmph</i>	(c) 90 <i>kmph</i>	(d) 100 kmph
51.	In how many ways car come together?	n the word APTITU	DE be arranged such	n that the vowels always
	(a) 8!	(b) 1440	(c) 576	(d) 120
52.	There are 10 yes or no c	questions. In how man	ny ways can these be	answered?
	(a) 1024	(b) 256	(c) 100	(d) 20
53.	How many 4's are there	proceeded by 7 but r	not followed by 3?	
	5 9 3 2 1 7 4 2 6 9 7 4 6	1 3 2 8 7 4 1 3 8 3 2	5 6 7 4 3 9 5 8 2 0 1	87463
	(a) Three	(b) Four	(c) Five	(d) Six
54.	How many times in a direction?	day, are the hands	of a clock in strai	ght line but opposite in
	(a) 48	(b) 22	(c) 24	(d) 12
55.	Find the next number in	the sequence 1, 4, 10	0, 22, 46,?	
	(a) 64	(b) 86	(c) 94	(d) 122
56.	Which of the following	is not a leap year?		
	(a) 2000	(b) 700	(c) 800	(d) 1200

57.	Find the missing letters	a, d, c, f, ?, h, g, ?, i		
	(a) e, j	(b) e, k	(c) f, j	(d) j, e
58.	Grish walked 15 <i>m</i> No was he from the starting		ned South and walke	d another 12 m. How far
	(a) 9 <i>m</i>	(b) 3 <i>m</i>	(c) 18 <i>m</i>	(d) 27 m
59.	A is 100 <i>m</i> North east 6 <i>A</i> ?	of <i>B</i> . <i>C</i> is 100 <i>m</i> Sou	th west of B. Then, G	C is in which direction of
	(a) 200 <i>m</i> South We (c) 100 <i>m</i> West	est	(b) 200 <i>m</i> North We (d) 100 <i>m</i> North	est
60.	If $P + Q$ means P is the $P * Q$ means P is the			
	(a) Aunt	(b) Sister	(c) Daughter	(d) Mother
61.	If P is the brother of Q ,	Q is the sister of R , a	and R is the father of	S, how is P related to S?
	(a) Father	(b) Maternal Uncle	(c) Paternal Grandp	a (d) Paternal Uncle
62.	A, B, C, D, E and F are C is sitting to the left of	_		A and B are at the ends. tht of B?
	(a) D	(b) E	(c) F	(d) C
63.	In a row of 25 boys, Mi many boys are between		the left and Nitin is e	ighth from the right. How
	(a) 4	(b) 7	(c) 6	(d) 5
64.	Find the missing number	er in the sequence 3, 7	7, 15, ? , 63, 127	
	(a) 30	(b) 31	(c) 47	(d) 52
65.	Find the missing letters	a, d, c, f, ?, h, g, ?, i		
	(a) e, j	(b) e, k	(c) f, j	(d) j, e
66.	Find the odd man out A	Z, GT, MN, SH, XB		
	(a) GT	(b) MN	(c) SH	(d) XB
67.	If the following series is right of the seventh num		se order, which numb	er will be fourth to the

7, 3, 9, 7, 0, 3, 8, 4, 6, 2, 1, 0, 5, 11, 13

(a) 0	(b) 5	(c) 9	(d) 11
68. Find the next n	umber in the sequence 10, 1	4, 26, 42, 70,?	
(a) 100	(b) 102	(c) 106	(d) 114
69. Find the next n	number in the sequence 4, 12	2, 36, 108, ?	
(a) 144	(b) 216	(c) 304	(d) 324
0 0	ven words in a meaningful s 2. Eagle 3. Grasshopper	•	rass
(a) 5, 3, 4,	2, 1 (b) 5, 3, 1, 4, 2	(c) 3, 4, 2, 5, 1	(d) 1, 3, 5, 2, 4
71. If ZEBRA can	be written as 2652181, how	can COBRA be wri	tten?
(a) 302181	(b) 3152181	(c) 31822151	(d) 1182153
72. In a certain cowritten in that		\$52, RIDE is writte	en as %7#\$. How is RISK
(a) %725	(b) %752	(c) %7#2	(d) %7\$#
	de language, '123' means 'ho y and night'. Which digit sta		6' means 'very hot day' and
(a) 5	(b) 6	(c) 8	(d) 9
74. Choose the a combination.	lternative which is closel	y resembles the m	irror image of the given
	(3) RSOUPSERIV (1) SOUPSERIV SOUPSERIV	(4) SUPERVIOSR (5) SUPERVISOR	
(a) 1	(b) 2	(c) 3	(d) 4
75. Arrange the given	ven words in a meaningful s	equence:	
1. Curd	2. Grass 3. Butter 4.	Milk 5. Cow	
(a) 5, 2, 4,	1, 3 (b) 5, 2, 3, 4, 1	(c) 4, 2, 5, 3, 1	(d) 2, 5, 4, 3, 1