Dog No.					
Reg. No.:					

Question Paper Code: 44031

		B.E. / B.Tech. DEGR	EE EXAMINATION	, NOV 2019
		Fo	ourth Semester	
		Civ	vil Engineering	
	14UGS	S431 - QUALITATIV	E AND QUANTITA	TIVE APTITUDE
		(Commo	on to ALL branches)	
		(Re	egulation 2014)	
Г	Ouration: Three h	ours		Maximum: 100 Marks
		Answer	Any 50 Questions	
		PART A -	$(50 \times 2 = 100 \text{ Marks})$)
1.	If the number 5 place of * will		divisible by 3, then the	he smallest whole number in
	(a) 0	(b) 2	(c) 1	(d) 5
2.	How many num	nbers from 22 to 90 ar	e exactly divisible by	11?
	(a) 6	(b) 7	(c) 8	(d) 9
3.	Find the Number	er of factors of 100		
	(a) 9	(b) 2	(c) 4	(d) 10
4.	What is the unit	t digit in the product ($38^{122} \times 65^{521} \times 79^{384}$)	?
	(a) 0	(b) 2	(c) 5	(d) 6
5.	Find the unit di	git of the expression 2	$216^{789} + 991^{254} + 632^{161}$?
	(a) 5	(b) 0	(c) 9	(d) 7
6.	LCM of two nu other number	umbers is 48 and their	r HCF is 8. If one of	the two numbers is 16, find the
	(a) 12	(b) 24	(c) 32	(d) 36
7.	Three number a	are in the ratio $1:2:3$	and their HCF is 12.	The numbers are
	(a) 4, 8, 12	(b) 5, 10, 15	(c) 10, 20, 30	(d) 12, 24, 36

8.	If the average of seven numbers is 35. If one is included. The average becomes 40. The included number is					
	(a) 70	(b) 75	(c) 65	(d) 80		
9.	_	e daily expenditure is Rend the Average daily exp	•	Rs.14 during April and Rs. 17 ee months?		
	(a) 13.35	(b) 14.22	(c) 14.33	(d) 13.33		
10.	Number decreas	sed by 20% gives 480. T	he number is			
	(a) 500	(b) 600	(c) 550	(d) None of these		
11.	If P% of P is 36	, then P is equal to				
	(a) 15	(b) 60	(c) 600	(d) 3600		
12.	If A is 25% grea	ater than B then how mu	ch percentage is B	smaller than A?		
	(a) 20%	(b) 25%	(c) 28%	(d) 21%		
13.	years will the ages be	in the ratio 8:7?		ages is 66. After how many		
14.	(a) 13 The sum of all e	(b) 19 even natural numbers bet	(c) 12 ween 1 and 31 is	(d) None of these		
1 1.	(a) 16	(b) 128		1) 512		
15.	. ,	e of first ten multiples of	. ,	., 012		
	(a) 13	(b) 15	(c) 18	(d) 16.5		
16.	By selling a boo	ok for 270, 20% profit w	as earned. What is t	he cost price of the book?		
	(a) 216	(b) 226	(c) 254	(d) 225		
17.	A class consists of	of 36 girls and 44 boys.	. If the average weig	ght of the girls is 40 kg and that		
ł	ooys is 35 kg, fin	d the average weight of	all students in the cl	lass?		
10	(a) 37.25 <i>kg</i>	(b) 37.5 <i>kg</i>	(c) 37 kg	(d) 37.75 kg		
18.	_	second-hand typewriter 580. His profit per cent is	-	ent Rs.200 on its repairs. He		
	(a) 20%	(b) 10%	(c) 8%	(d) 16%		
19.	The average of t	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 days and B can do it in 8 days. In how many days A and B can do the work?						
21.	(a) 20 days What percent is 70	(b) 10 days of 280?	(c) 6 days	(d) 8 days			
	(a) 25%	(b) 50%	(c) 75%	(d) None of these			
22.	A sum of money be compound interest.		three years and Rs.	4400 after six years on			
23.	(a) Rs. 1400	(b) Rs. 1100	(c) Rs. 1000 their sum is 108. Th	(d) Rs.1200 e second number of the three			
	(a) 12	(b) 15	(c) 27	(d) 29			
24.	If a dozen mirrors a	re fallen 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 nu	ımber?			
	(a) 60	(b) 30	(c) 15	(d) 10			
	of kartik's age. Find	d present age of fathe	•	e, father's age will be twice			
27.	The ages of Vikas a find the age of Nika		ratio of 5 : 3. If Vika	as is 8 year elder than Nikash,			
	(a) 10	(b) 12	(c) 15	(d) 20			
28.	A can do a work in the work?	24 days and B can d	lo it in 8 days. In ho	w many days A and B can do			
	(a) 20 days	(b) 10 days	(c) 6 days	(d) 8 days			
29.	•	Ram and Raj differ of Ram after 4 years.	by 7. Five years ba	ck, Raj was twice the age of			
	(a) 16	(b) 20	(c) 21	(d) 25			
30.	can	e 20 toys in 12 days toys working 20 hour (b) 10 days	_	day. Then in how many days (d) 25 days			
31.	•	•	•	. Find the profit percent			
	(a) 25%	(b) 60%	(c) 50%	(d) 80%			

32.	A pipe can fill a tank in 3 hours. Because of leak in the bottom, it is filled in 4 hours. If the tank is full, how much time will the leak take to empty it?						
	(a) 10 hours	(b) 11 hours	(c) 12 hours	(d) 9 hours			
33.	By selling an article	e for Rs. 384, a trader	gains 20%. Find the	cost price of article.			
	(a) 160	(b) 240	(c) 320	(d) 480			
34)	A sum of Rs. 1200/-	lent at Simple interes	st at 10% will becom	e twice in how many years?			
	(a) 12 years	(b) 14 years	(c) 10 years	(d) 8 years			
35.	The Difference between interest is	ween C.I and S.I on	a sum of Rs. 10000	for two years at a rate of 5%			
	(a) Rs. 25	(b) Rs. 20	(c) Rs. 10	(d) Rs. 5			
36.	At what rate of co years?	mpound interest wil	1 a sum of Rs. 8000	amount to Rs. 8820 in two			
	(a) 8%	(b) 10%	(c) 6%	(d) 5%			
37.	When the time in th	e clock is 7.20, then	the angle between the	e hands of the clock is			
	(a) 100 degrees	(b) 120 degrees	(c) 90 degrees	(d) 110 degrees			
38.	How long does it ta	ke for a sum of Rs. 2	500 to become Rs. 12	2500 at 10% simple interest?			
	(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.	Which number is or	n the face opposite to	5?				
		6 6 6 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5 4 4	2			
	(a) 4	(b) 1	(c) 2	(d) 3			
41.	Find the number of	triangles in the giver	n figure.				
	(a) 16	(b) 18	(c) 12	(d) 17			

42.	. A man travels a distance of 2 km by walking at a speed of 6 km/hr . He returns back at a speed of 4 km/hr . what is his average speed?						
	(a) 4.5 <i>kmph</i>	(b) 4.8 <i>kmph</i>	(c) 5 <i>kmph</i>	(d) 5.1 <i>kmph</i>			
	-	vels from A to B at a s his average speed	-	and returns to increasing his speed			
	(a) 60 km/hr	(b) 48 km/hr	(c) 56 km/hr	(d) 52 km/hr			
44.	A man walking bridge (in meters) is:	at the rate of 5 km	n/hr crosses a bridge	e in 15 minutes. The length of the			
	(a) 600	(b) 750	(c) 1000	(d) 1250			
45.	In a certain cod PILLER written	,	ritten as 613382 and	LIFE is written as 8192. How is			
	(a) 318826	(b) 318286	(c) 618826	(d) 338816			
46.	If 6 men take 9	days to complete a v	work, how many mer	n can complete the work in 3 days?			
	(a) 2 men	(b) 12 men	(c) 9 men	(d) 18 men			
47.	If 12 men work	8 hours a day to con	mplete a work in 10 c	days. How many men working			
	12 hours a day o	can complete the wo	ork in 5 days?				
	(a) 16	(b) 4	(c) 12	(d) 8			
48.				opened simultaneously. If pipe A e will pipe B alone take to fill the			
	(a) 60 min	(b) 40 min	(c) 30 min	(d) 20 min			
49.	• •	fill a tank in 6, 10 t take to fill the tank	•	tively. If they are opened together,			
	(a) 3 hours	(b) 30 hours	(c) 10 hours	(d) 3.33 hours			
50.		ons on parallel track	at the speeds of 40 k cs. The time taken to 26 sec (d) 28				
51.	320m long train i 180m long? (a) 20 sec	s running at 72 Km _j (b) 25 sec (c)		t will take to cross a platform of sec			
		(-)					

52.	52. In how many different number of ways the letters of the word 'ENGINEERING' can be							
	arranged	(1) 27700	() 277200	(1) 272700				
53.	(a) 27200 How many 4's a	` '	(c) 277200 led by 7 but not for	(d) 272700 ollowed by 3?				
	•	•	•	7439582018	7 4 6 3			
	(a) Three	(b) Four	(c) Five	(d) S	ix			
54.	How many tim direction?	es in a day, ar (a) 48	re the hands of (b) 22	a clock in straig (c) 2	ht line but opposite in 4 (d) 12			
55.	Find the next nu	mber in the sequ	uence 1, 4, 10, 22	, 46,?				
	(a) 64	(b) 86	(c) 94	(d) 1	22			
56.	Which of the fol	llowing is not a	leap year?					
	(a) 2000	(b) 700	(c) 800	(d) 1	200			
57.	Find the missing	g letters a, d, c, f	² , ?, h, g, ?, i					
	(a) e, j	(b) e, k	(c) f, j	(d) j,	, e			
58.	Grish walked 1: was he from the		est, then turned S	outh and walked	another 12 m. How far			
	(a) 9 <i>m</i>	(b) 3 <i>m</i>	(c) 18 m	(d) 2	7 m			
59.	A is 100 <i>m</i> Nor <i>A</i> ?	th east of <i>B</i> . <i>C</i> i	s 100 <i>m</i> South we	est of B. Then, C	is in which direction of			
	(a) 200 m South	West	(b) 200	m North West				
	(c) 100 <i>m</i> West		(d) 100	m North				
60.	You go North, tu you now?	irns right, then r	ight again and the	en go to the left .Ir	n which direction are			
	(a) North (b) West (c) East (d) South Directions (61 to 65): Read the following information carefully and answer the questions given 1. A, B, C, D, E and F are six friends are sitting in a circle facing the center. 2. F is the 4th left of E							
	3. A is not between D and E but some other one							
	4. C is next left of F.							
61	. Who is left of I)?						
	(a) A	(b) C	(c) B	(d) E				

62.	What is the posit	tion of E?				
	(a) Left of F	(b) Third right of	of B (c) l	Between C a	and B	(d) None.
63.	Who is sitting ju	ust right to D?				
	(a) B	(b) A	(c) F	(d)	E	
64	. Who is right of	E?				
	(a) B	(b) A	(c) C	(d)	F	
65.	Who is facing D)?				
	(a) F	(b) E	(c) A	(d)	C	
66.	Find the odd ma	n out AZ, GT, N	MN, SH,	XB		
	(a) GT	(b) MN		(c) SH		(d) XB
67.	If the following	series is written	in the rev	verse order,	which n	umber will be fourth to the
	right of the seve 7, 3, 9, 7, 0,	nth number from 3, 8, 4, 6, 2, 1, (
	(a) 0	(b) 5		(c) 9		(d) 11
68.	Find the next nu	mber in the sequ	ience 10,	14, 26, 42,	70,?	
	(a) 100	(b) 102		(c) 106		(d) 114
69.	Find the next nu	mber in the sequ	ience 4, 1	12, 36, 108,	?	
	(a) 144	(b) 216		(c) 304		(d) 324
70.	Arrange the give 1. Frog 2. Eag		_	sequence 4. Snake	5. Gras	S
	(a) 5, 3, 4, 2, 1	(b) 5, 3, 1, 4	4, 2	(c) 3, 4, 2, 5	5, 1	(d) 1, 3, 5, 2, 4
71.	If ZEBRA can b	e written as 265	2181, ho	w can COBI	RA be w	ritten?
	(a) 302181	(b) 3152182	1	(c) 3182215	51	(d) 1182153
72.	In a certain code, DESK is written as #\$52, RIDE is written as %7#\$. How is RISK					
73.		(b) %752	means 'h	ot filtered co	offee'. '3	(d) %7\$# 56' means 'very hot day' ery'?
	(a) 5	(b) 6		(c) 8		(d) 9

74. C			h is closely re	esembles the mirror image of the given		
	combinati	on. BRISK				
		BRISK (1) BRISK (E)	BRISK (2) BRISK (4)			
(8	a) 1	(b) 2	(c) 3	(d) 4		
75. Choose the alternative which is closely resembles the water image of the given combination.						
		OITSUOCA (1)	C (2) \	ACOUSTIC		

(c) 3

(4) ACOUSTIC

(d) 4

(3) ACOUSTIC

(b) 2

(a) 1