Question Paper Code: 54031

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Fourth Semester

Civil Engineering

15UGS431 - REASONING AND QUANTITATIVE APTITUDE

(Common to ALL branches)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer Any 50 Questions

PART A - (50 x 2 = 100 Marks)

1. If the number 517*324 is completely divisible by 3, then the smallest whole number in place of * will be?

(a) 0	(b) 2	(c) 1	(d) 5

- 2. What is the difference between the place values of 2 in the numeral 7229?
 - (a) 20 (b) 200 (c) 180 (d) 18
- 3. Find the Number of factors of 520
 - (a) 8 (b) 14 (c) 16 (d) 12

4. How many numbers between 11 and 90 are divisible by 7?

- (a) 11 (b) 9 (c) 10 (d) 13
- 5. How many prime numbers between 50 to 100.
 - (a) 15 (b) 10 (c) 9 (d) 11
- 6. The HCF of two prime numbers is
 - (a) Their product (b) their sum (c) one (d) zero

7. On dividing 15968 by a certain number the quotient is 89 and the remainder is 37. Find the divisor?

	(a) 159	(b) 179	(c) 156	(d) 163	
8.	$\frac{(489+375)^2-(489)^2}{(489\times375)^2}$	$\frac{39-375)^2}{5}$ =?			
	(a) 144	(b) 864	(c) 2	(d) 4	
9.	If a clock strikes will it strike in a c	once at 1 O'clock, tw day	ice at 2 O'clock and s	o on, how many times	
	(a) 78	(b) 156	(c) 144	(d) None of these	
10.	Find the largest n	umber of 4-digits div	isible by 12, 15 and 1	8.	
	(a) 9900	(b) 9750	(c) 9450	(d) 9000	
11.	The sum of first 1	2 odd numbers is			
	(a) 78	(b) 144	(c) 156	(d) None of these	
12.	Find the number	of 3 digit numbers, w	hich are divisible by 9)	
	(a) 99	(b) 100	(c) 101	(d) 98	
13.	13. The L.C.M. of two numbers is 48. The numbers are in the ratio 2 : 3. Then sum of the number is				
	(a) 30	(b) 40	(c) 38	(d) 36	
14.	4. The sum of all even natural numbers between 1 and 31 is				
	(a) 16	(b) 128	(c) 240	(d) 512	
15.	15. Find the least number, which when divided by 12, 15, 20 and 54 leaves a remainder of 8 in each case				
	(a) 548	(b) 540	(c) 532	(d) 524	
16.	16. Find the average of first ten multiples of 3?				
	(a) 13	(b) 15	(c) 18	(d) 16.5	
17.	In a cricket mar percentage of his	tch, Rahul scored a runs did he make by	century with 13 be running between the	oundaries and 3 sixes. Wickets?	What

(a) 70% (b) 50% (c) 35% (d) 30%

18. Average of five consecutive odd numbers is 35. Find the greatest number in these five numbers?

(a) 33	(b) 35	(c) 37	(d) 39

- 19. 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

20. Find the average of all numbers between 5 and 49 which are divisible by 5.

- (a) 20 (b) 25 (c) 30 (d) 35
- 21. If the length of the rectangle is decreased by 20% and breadth is increased by 25% then change of the area is
 - (a) 5% (b) 20 % (c) 0% (d) 10%

22. If the sides of a square are decreased by 10%, find the percentage decreased by its area?

(a) 20% (b) 19% (c) 15% (d) 10%

23. 40% of a number is 80. What is 30% of one – fourth of the number?

- (a) 60 (b) 30 (c) 15 (d) 10
- 24. The sum of ages of Sarvesh and his father is 46 years. 3 years back father's age was 4 times more than Sarvesh's age. Find present age of Sarvesh.
 - (a) 11 years (b) 8 years (c) 12 years (d) 16 years

25. If 20% of a certain number is 80, then what is 30% of that number is

(a) 100 (b) 120 (c) 150 (d) 140

26. How many terms of A.P -10, -7, -4, -1,.... must be added to get the sum -104?

(a) 10 (b) 13 (c) 12 (d) 11

27. After 5 years, age of Neelam would be 28 years. What was her age 8 years ago?

- (a) 15 (b) 20 (c) 25 (d) 30
- 28. The sum of first 45 natural numbers is
 - (a) 1035 (b) 1280 (c) 2070 (d) 2140
- 29. Present age of the X and Y are in the ratio 5:6 seven years hence the ratio will become 6:7. What is present age of X in years?
 - (a) 35 (b) 42 (c) 49 (d) None of these

- 30. The average age of our family of four is 35. Excluding me, the average age is 40. Find my age?
 - (a) 15 (b) 25 (c) 20 (d) 30

31. 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%

32. If a worker in a factory receives one rupee on the first day from the second days onwards his wage is increased by one rupee every day. What is the total amount of wage he receives after 40 days?

(a) Rs. 720/- (b) Rs. 820/- (c) Rs. 810/- (d) Rs. 740/-

33. By selling a watch for Rs. 980/-, a man loses 30% what is that watch cost price

(a) Rs.1200/- (b) Rs.1300/- (c) Rs. 1400/- (d) None of these

34. By selling a book for 270, 20% profit was earned. What is the cost price of the book?

(a) 216 (b	o) 226	(c) 254	(d) 225
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35. 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%
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36. The sum of the ages of 5 children born at the intervals of 3 years each is 50 years what is the age of the youngest child?

(a) 4 years (b) 7 years (c) 5 years (d) 6 years

- 37. The Difference between C.I and S.I on a sum of Rs. 10000 for two years at a rate of 5% interest is
 - (a) Rs. 25 (b) Rs. 20 (c) Rs. 10 (d) Rs. 5
- 38. At what rate per annum a sum of Rs. 2400/- will become Rs. 3600/- in 5 years
 - (a) 10% (b) 15% (c) 20% (d) 12%
- 39. After selling 30% of the Oranges, a fruit vendor has 280 Oranges left. How many did he have originally?
 - (a) 400 (b) 520 (c) 390 (d) 300
- 40. Find the principle, interest on Rs.900/- at 6% p.a. for 3 years?
 - (a) Rs.5000 (b) Rs.4500 (c) Rs.3500 (d) Rs.2200

41.	If $x : y = 5 : 8$ and $y : z$	= 4:7 then find x : z	2.	
	(a) 32 : 35	(b) 67 : 56	(c) 5 : 14	(d) 5 : 7
42.	The ratio of two number	rs is 3:4 and their sur	n is 28. The greater o	f the two numbers is?
	(a) 8	(b) 12	(c) 14	(d) 16
43.	A motorist travels for 6 distance traveled by him	hours, the first half a	t 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	::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.	What is the value of x in	n 1.7: 5.1:: 1.9: x?		
	(a) 9.69	(b) 5.7	(c) 7.5	(d) 8.67
46.	A person crosses a 600	m long street in 5 mi	nutes. What is his spe	eed in km/hr?
	(a) 3.6	(b) 7.2	(c) 8.4	(d) 10
47.	The speed of the car is 1	0 m/s. What is the sp	beed in kmph?	
	(a) 25kmph	(b) 30kmph	(c) 50kmph	(d) 36kmph
48.	A man starts at 3 pm w the speed of 75 Kmph.	ith the speed of 50 k When will they meet	Xmph. Another man 1 ?	follows him at 4 pm with
	(a) 5 pm	(b) 6 pm	(c) 7 pm	(d) 6.30 pm
49.	An athlete runs 200m ra	ice in 24 seconds. Wh	nat is his speed?	
	(a) 20 km/hr	(b) 25 km/hr	(c) 27.5 km/hr	(d) 30 km/hr
50.	If the side of the square	are increased by 20%	6. Find the percentag	e increase in its area
	(a) 40%	(b) 44 %	(c) 20%	(d) 24%
51.	If 4 men can colour 48 m	n long cloth in 2 day	s, then 6 men can col	our 36 m long cloth in
	(a) 1 day	(b) 3/2 days	(c) 3/4 day	(d) 1/2 day
52.	The ages of Vikas and M 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
53.	36 workers can reap a fi required are	eld 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 d the work?	ays and B can do it in	n 8 days. In how mar	ny days A and B can do
	(a) 20 days	(b) 10 days	(c) 6 days	(d) 8 days
55.	If 3 persons can do 3 tin of that work in	nes of a particular wo	ork in 3 days, then, 7	persons can do 7 times
	(a) 7 days	(b) 6 days	(c) 4 days	(d) 3 days
56.	In an examination, 35% appeared for the examin	of the students passe nation?	ed and 455 failed. Ho	w many students
	(a) 490	(b) 700	(c) 845	(d) 1300
57.	Three pipes can fill a tar how long does it take to	nk in 6, 10 and 15 ho fill the tank?	urs respectively. If th	ey are opened together,
	(a) 3 hours	(b) 30 hours	(c) 10 hours	(d) 3.33 hours
58.	Today is Monday. After	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	3 hours. Because of ime will the leak take	leak in the bottom, it to empty it?	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	week on 17th June,	1998?	
	(a) Tuesday	(b) Monday	(c) Sunday	(d) Wednesday
61.	Two trains 300m and 40 opposite Directions on p	00m long run at the sp parallel tracks. The time	peeds of 40 kmph and me taken to cross eac	d 50kmph respectively in h other?
	(a) 20 sec	(b) 25 sec	(c) 26 sec	(d) 28 sec
62.	On which week day Aug	gust 15, 1947 falls?		
	(a) Tuesday	(b) Monday	(c) Friday	(d) Wednesday
63.	There are 10 yes or no q	uestions. In how man	ny ways can these be	answered
	(a) 1024	(b) 256	(c) 100	(d) 20
64.	In how many different n arranged	number of ways the le	etters of the word 'EN	IGINEERING' can be
	(a) 27200	(b) 27700	(c) 277200	(d) 272700

65.	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	
66.	Grish walked 15 m No was he from the startin	orth – West, then turne ng point	ed South and walked a	another 12 m. How far	
	(a) 9 m	(b) 3 m	(c) 18 m	(d) 27 m	
67.	How many times in a d	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 are the	he hands of a clock at	right angles in a day?	?	
	(a) 22	(b) 44	(c) 38	(d) 48	
69.	How many times are the	he hands of a clock co	incide in a day?		
	(a) 44	(b) 48	(c) 24	(d) 22	
70.	How many persons are	e there who take both	tea and coffee but not	t Milk?	
	(a) 7	(b) 25	(c) 10	(d) 15	
71.	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	
72.	Today is Friday, after	126 days, it will be			
	(a) Sunday (b) Tuesday	(c) Friday	(d) Monday	
73.	If B's mother was A's	mother's daughter, H	ow is A related to B?		
	(a) Maternal Uncle	e (b) Father	(c) Brother	(d) Sister	
74.	4. 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 :: Grass :	?			
	(a) Lawn	(b) Field	(c) Garden	(d) Farm	