

## KLETECHNOLOGICAL UNIVERSITY DEPARTMENT OF HUMANITIES

# PROFESSIONAL APTITUDE AND LOGICAL REASONING

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# Number System-2

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### Number System – 2

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01	Which of the following		oer?				
	(a) 496	(b) 8126	(c) 26	(d) 498			
02	Identify the pair of co						
	(a) 4, 12	(b) 3, 33	(c) 5, 25	(d) 7, 12			
03			decimal form of 5 / 9?				
	(a) 0.88888		(c) 0.66666	(d) 0.78787			
04			action form of 1.1333333				
	(a) 17 / 15		(c) Either (a) or (b)	(d) None of these			
05	Which of the following			(1) 0040			
00		(b) 471969		(d) 2916			
06	Which of the following			(-1) 044			
	(a) 79	(b) 89	(c) 119	(d) 211			
07	What is the LCM of		(-) 40F	(d)			
00	(a) 12	(b) 21	(c) 105	(d) none of these			
80			of the given three fractio				
	(a) 2	(b) 2 / 105		(d) 105			
09		nders is 42 & their	HCF is 4; what is the va	lue of the other number if one of them is			
	21?	(b) 0.4	(a) 24	(d) Con't cov			
10	(a) 8	(b) 84	(c) 21	(d) Can't say			
10	Which of the following			(d) 1/ F			
11				(d) 1/5			
11	What is the value of	(b) 4		(4) 3			
12	(a) 1		(c) 3 such that the remainder	(d) 2			
12	-	(b) 20	(c) 24	(d) None of these			
13	(a) 4 What is the number			(a) None of these			
13	(a) 4	(b) 24	(c) 20	(d) None of these			
14			$506 \times 104 \times 102 \times 204$				
17	(a) 4	(b) 2		: (d) 8			
15			ed p = odd, q = even, r =				
10	(a) Odd			(d) Can't say			
16	` ,		such that the remainder				
10	(a) 35	(b)49		(d) 4			
				he quotient is then increased by 4 and			
17	divided by 5 and the			no quotient le trien meredeca by i and			
	(a) 27		(c) 29	(d) All of these			
18			$+2\sqrt{8} + 3\sqrt{32} - 2\sqrt{50}$ ?	(4) / 111 61 111666			
. •	(a) 15√2	(b) 10√2	(c) $25\sqrt{2}$	(d) None of these			
19	Find the remainder of			(4) 115115 51 411555			
	(a) 6	(b) 1	(c) 7	(d) None of these			
20	Find the remainder of			(4)			
20	(a) 2	(b) 4	(c) 5	(d) 3			
0.4				hat is the remainder obtained when you			
21	divide the same nun			,,,,			
	(a) 1	(b) 11	(c) Either (a) or (b)	(d) Can't say			
	What is the result of	• ,	. , . , . , . ,	(1)			
22	Triacio alo rocale ol		· · . · .				
	(a) 19	(b) 21	(c) 15	(d) 28			
	What is the result of	` ,	` '	(3) 23			
23	TTIAL IS THE TOSUIT OF	Carrination 1 1 Z					
	(a) 42	(b) 66	(c) 55	(d) 91			
				(~/ ~ .			
24	What is the result of summation 1 <sup>3</sup> + 2 <sup>3</sup> + +7 <sup>3</sup> ?						
	(a) 49	(b)280	(c) 441	(d) 784			
	• •		• •	• •			

25	•	of co-prime numbers		(4) 7, 00		
00	(a) 6, 42	(b) 3, 36	(c) 5 , 15	(d) 7, 22		
26			g decimal form of 43 / 99			
	(a) 0.434343	(b) 0.444444	(c) 0.555555	(d) Can't Say		
27		Which one of the following is Vulgar Fraction form of 1.14545454545?				
	(a) 11 / 10	(b) 189 / 165	(c) 165 / 189	(d) None of these		
28	What is the LCM	of 4/7, 6/11, 7/9?				
	(a) 24	(b) 84	(c) 48	(d) None of these		
29	What is the HCF of 4/7, 6/11, 7/9?					
	(a) 1 / 693	(b) 1 / 69	(c) 1 / 6	(d) 1 / 9		
30	The LCM of two r	numbers is 560 & th	eir HCF is 4; what is the	value of the other number if one of them is		
	(a) 280	(b) 61	(c) 32	(d) Can't be determined		
31	Which of the follo	wing fractions is the	greatest?			
	(a) 1/4	(b) 2 / 3	(c) 3 / 7	(d) 5 / 6		
32	` '	est power of 5 in 30!	, such that the remainde	` '		
	(a) 10	(b)11	(c) 7	(d) 6		
33	` '	per of zeroes at end	` '	(-) -		
	(a) 2	(b) 5	(c) 6	(d) 8		
34	What is the Unit digit (U.D.) of product $(517 \times 111 \times 113 \times 216)$ ?					
•	(a) 2	(b) 8	(c) 1	(d) 6		
35	` '	` '	` '	d, $n = even$ , $o = odd$ , $p = odd$ .		
55	(a) Odd	(b) Even	(c)Indeterminable	(d) Can't say		
36	` '	` '	, such that the remainde	•		
30	(a) 6	(b) 5	(c) 8	(d) None of these		
37		er obtained when 20	` '	(a) None of those		
51	(a) 2	(b) 4	(c) 3	(d) 5		
38	Remainder obtained when you divide a number by 10 is 4. What is the remainder obtained when you					
	divide the same r	•				
	(a) 4	(b) 14	(c) Either (a) or (b)	(d) None of these		
39	A machine has three wheels each of radius 7 m, revolving at speeds of 2, 4 & 11 m/sec, whenever the three wheels are at initial position simultaneously, a bell rings. When will the bell ring for the 2 <sup>nd</sup> time, if if irst rings at 12:00?					
	(a) 12:00:44	(b) 12:01:28	(c) 12:00:22	(d) None of these		
40	Which of the follo	wing is definitely no	t a perfect square?			
	(a) 7248	(b) 7744	(c) 3721	(d) 3969		
41	` '	wing is definitely no	` '	. ,		
	(a) 32768	(b) 15648	(c) 110592	(d) 4913		
42	The LCM of two is 119?	numbers is 357 & th	neir HCF is 17; what is the	ne value of the other number if one of them		
	(a) 187	(b) 19	(c) 34	(d) 51		
43	` '	` '	, such that the remainde	` ,		
-	(a)13	(b) 4	(c) 6	(d) None of these		
	` '	` '	` '			

#### NUMBER SYSTEM-2

44	What is the highest power of 8 in 98!, such that the remainder obtained is zero.				
	(a) 12	(b) 13	(c) 7	(d) None of these	
45	Find the remainder obtained when (84+ 2) divided by 7?				
	(a) 4	(b) 6	(c) 8	(d) 3	
46	Find the remainder obtained when (19 <sup>4</sup> + 7) divided by 90?				
	(a) 6	(b) 1	(c) 8	(d) 7	
46	, , ,				