NUMBER SYSTEM							
1. Which of the follows	ing number is a prime nu	mber?					
(a) 541	(b) 323	(c) 217	(d) 551				
2. Which is the least 7-digit number, that leaves a remainder of 3 when divided by 7?							
(a) 1000003	(b) 1000010	(c) 1000005	(d) 1000002				
3. When a certain number is multiplied by 21, the product consists of only fours. The smallest such number is:							
(a) 21164	(b) 21174	(c) 21264	(d) 22264				
4. A number when divided by 627 leaves a remainder 43. By dividing the same number by 19, the remainder will be:							
(a) 19	(b) 5	(c) 13	(d) cannot be determined				
5. The sum of all odd numbers from 1 to 51 is:							
(a) 484	(b) 576	(c) 338	(d) 676				
6. The digit in the unit place in $(1038)^{71}$ is:							
(a) 2	(b) 4	(c) 8	(d) 6				
7. The number of prime numbers in $(49)^{21} \times (6)^6 \times (8)^4$ is:							
(a) 31	(b) 56	(c) 66	(d) 39				
8. The number of zeros at the end of the product: $(16 \times 22 \times 15 \times 50 \times 65 \times 115 \times 18 \times 90)$ is							
(a) 5	(b) 6	(c) 12	(d) 7				
9. How many such numbers are there between 1 and 100 such that each of which is not only divisible by 4, but also has one digits as 4 in the number?							
(a) 12	(b) 7	(c) 15	(d) 17				
10. $4^{61} + 4^{62} + 4^{63} + 4^{64}$ is divisible by:							
(a) 3	(b) 11	(c) 12	(d) 10				
11. Which digit should come in place of * to form the number 378*95 is completely divisible by 11?							
(a) 1	(b) 9	(c) 5	(d) 8				
12. The digit in the unit's place of the number $28^{999} + 12^{289} - 21^{467}$ is:							
(a) 7	(b) 3	(c) 1	(d) 5				
13. $(7^{19} - 1)$ is completely divisible by:							
13. $(7^{13} - 1)$ is completed (a) 6	(b) 7	(c) 16	(d) 14				

14. What is the smallest number that must be multiplied with 192 to make it a four digit perfect square?								
(a) 3	(b) 12	(c) 18	(d) 6					
15. What is the sum of the least and the highest four digit numbers which are exactly divisible by 13?								
(a) 10999	(b) 11320	(c) 10689	(d) 10998					
16. Which of the following number is divisible by 99?								
(a) 212985	(b) 211085	(c) 229185	(d) 221985					
17. $(17^{21} + 19^{21})$ is not divisible by:								
(a) 36	(b) 8	(c)18	(d) 9					
10 11		. 00 1 1059						
(a) 3	umbers are there between (b) 4	(c) 8	(d) 5					
	, ,	•						
	veen the squares of two c							
(a) 14,15	(b) 15,16	(c) 17,18	(d) 18,19					
20. The difference between two numbers is 11 and $1/5^{th}$ of their sum is 9. The numbers are:								
(a) 31,20	(b) 30,19	(c) 29,18	(d) 28,17					
21. The difference between squares of two numbers is 144000 and the sum of the numbers is 1000.								
The numbers are:	our squares or the number							
(a) 592,408	(b) 572,428	(c) 750, 250	(d) 100, 900					
22. The sum of the squa	22. The sum of the squares of three consecutive even numbers is 200. The sum of the numbers is:							
(a) 15	(b) 14	(c) 16	(d) 24					
22 12(1 1 1 1 1	1		C.1 1 1					
	ed into three parts, such the e equal. The largest part	•	of the second part and one-					
(a) 36	(b) 65	(c) 63	(d) 37					
24 101 - 102 - 102 -	200 9							
24. 101+102+103+ (a) 15050	200 = ? (b) 15500	(c) 10505	(d) 10550					
(a) 13030	(0) 13300	(c) 10303	(u) 10330					
	any terms of the series 6+							
(a) 16	(b) 24	(c) 20	(d) 18					
$26. (11^2 + 12^2 + 13^2 + \dots 20^2) = ?$								
(a) 385	(b) 2485	(c) 2870	(d) 3255					
(1) (2) (3)								
27. $\left(1 - \frac{1}{n}\right) + \left(1 - \frac{2}{n}\right) + \left(1 - \frac{3}{n}\right) + \cdots$ Upto n terms=?								
(a) $\frac{1}{2}$ n	(b) $\frac{1}{2}(n-1)$	$(c)^{\frac{1}{2}} n (n-1)$	(d) None of these					

28. A number when divided successively by 4 and 5 leaves remainder 1 and 4 respectively. When it is successively divided by 5 and 4 the remainders will be:

	(a) 1,2	(b) 3,2	(c) 2,3	(d) 4,1		
	29. It is being given that $(2^{32}+1)$ is completely divisible by a whole number. Which of the following numbers is completely divisible by this number:					
	(a) $(2^{16}+1)$	(b) $(2^{16}-1)$	(c) $(2^{96}+1)$	(d) $7x2^{33}$		
	30. 2+2 ² +2 ³ ++2 ⁹ =?	4 > 1000	() 1056	(I) N Cd		
	(a) 2044	(b) 1022	(c) 1056	(d) None of these		
	31. How many terms ar (a) 8	re there in the G.P. 3,6,1 (b) 9	2,24384? (c) 10	(d) 11		
	(a) o	(0) 9	(c) 10	(u) 11		
	32. On dividing 2272 as the digits of N is:	s well as 875 by a 3 digit	number N, we get the sa	ame remainder. The sum of		
	(a) 10	(b) 11	(c) 12	(d) 13		
	$33.9\frac{3}{4} + 7\frac{2}{17} - 9\frac{1}{15} = ?$					
	(a) $7\frac{719}{1020}$	(b) $9\frac{817}{1020}$	(c) $9\frac{719}{1020}$	(d) $7\frac{817}{1020}$		
	34. $(12)^3$ x $6^4 \div 432 = ?$					
	(a) 5184	(b) 5060	(c) 5148	(d) 5084		
$35.35 + 15 \times 1.5 = ?$						
	(a) 75	(b) 51.5	(c) 57.5	(d) 5.25		
36. A person was to multiply a fraction by 6/7. Instead, he divided and got an answer which exceeds						
	the correct answer by 1. (a) 6/13	/7. The correct answer w(b) 91/36	as: (c) 36/91	(d) 13/6		
		,		(5) 557 5		
	37. The digit in the unit (a) 8	's place in the cube root (b) 6	of 21952 is: (c) 4	(d) 2		
	(a) 0	(6) 6		(d) 2		
38. A number consists of two digits whose sum is 7. If the digits are reversed, then number is increased by 27. The number is:						
	(a) 52	(b) 16	(c) 25	(d)34		
39. Calculate apprpox value of ? $95.975^{3.5} \div 16.001^{3.5} \times 6.002^{1.5} \div 35.99^{2}$						
	(a) 36	(b) 96	(c) $6\sqrt{6}$	(d) 6		
	$40.a^2 + b^2 = 45$, and ab= 18 than find the value of $\frac{1}{a} + \frac{1}{b}$:					
	(a) $\frac{2}{3}$	(b) $\frac{1}{2}$	(c) $\frac{1}{6}$	(d)) $\frac{5}{6}$		