## Number System-03- Unit Digit

1. Find the unit digit in each of the following cases:

	i. 423 <sup>428</sup>		ii. 413 <sup>7758</sup>		iii. 53⁵⁵ × 33⁵⁵
Directions for questions 2 to 10: Choose the correct answer option for each of the following question. In questions where the variable $n$ is used, it refers to a natural number.					
2.	Find the unit's digit of 222°88 + 333°22.				
	1. 1	2. 3	3. 5	4. 7	5. 9
3.	Find the unit's digit of 19 <sup>191919</sup>				
	1. 1	2. 3	3. 5	4. 7	5. 9
4.	What is the unit's digit of $17^{18^{19^{20}}}$				
	1. 1	2. 3	3. 5	4. 7	5. 9
5.	Find the digit in the ten's position of 5 $\times$ 240				
	1. 0	2. 2	3. 4	4. 6	5. 8
6.	For how many two digit values of $n$ would $17^n$ end with $3$ ?				
	1. 25	2. 24	3. 23	4. 22	5. 21
7.	What is the largest two digit value than $n$ can take such that $88^n$ and $22^n$ have the same unit's digit?				
	1. 99	2. 98	3. 97	4. 96	5. 95
8.	If the unit's digit of $37^n$ is 3, what is the unit's digit of $73^n$ ?				
	1. 1	2. 3	3. 7	4. 9	5. 3 or 7
9.	Find the unit's digit of $8^n + 2^n$ if the unit digit of $4^n$ is not 6.				
	1. 0	2. 2	3. 4	4. 6	5. 8
10.	How many distinct values can the unit digit of $1^n + 2^n + 3^n + + 8^n + 9^n$ assume?				
	1. 1	2. 2	3. 3	4. 4	5. 5