## **WORK SHEET ON FACTORIAL**

Q.1 The highest power of 3 in 80!			
(a) 36	(b) 34	(c) 23	(d) 24
Q.2 The highest power of 5 in 100!			
(a) 4	(b) 3	(c) 5	(d) 7
Q.3 40! <sup>40!</sup> end with how many zeros?			
(a) 40!	(b) 8 x 40!	(c) 9 X 40!	(d) 8 <sup>40!</sup>
Q.4 How many zeroes will be there at end of product of $2!^{3!} \times 4!^{5!} \times 6!^{7!} \times 8!^{11!} \times 10!^{13!}$ ?			
(a) 10! +8! +6!	(b) 2 x 10!	(c) 10! + 8!	(d) 7! + 11! +2(13!)
Q.5 How many numbers between 300 and 700 are divisible by all of 2, 3 and 7 together?			
(a) 8	(b) 9	(c) 10	(d) 7
Q.6 The highest power of 16 in 125! ?			
(a) 59	(b) 32	(c) 23	(d) 29
Q.7 50! end with how many zeros?			
(a) 34	(b) 12	(c) 23	(d) 43
Q.8 100! <sup>100!</sup> end with how many zeros?			
(a) 100!	(b) 24 x 100!	(c) 10 X 100!	(d) 24 X 50!