Number System Assignment – 2 (Classification)

Q.1: If 0.abcabc= 27/33 , find the sum a + b + c.				
A. 18	В. 2		2. 24	
D. 17	E. 1	None of these		
QUE.2: a and b are two single digit natural numbers such that 0.abab× n is a -ve integer value				
for all values of a and b. What is the maximum tnumber that n can be?				
A990	В999	C. 0	D198	E99
Que.3: a ,b, and c are three single digit natural numbers such that 0.abcabc×n is a negative				
integer value for all values of a , b and c. What is the least number that n can be?				
A. 990 B. 99 C990 D. 198 E. CBD				
				. 2. 0
Que.4: a ,b, c and d are four single digit natural numbers such that 0.abcdabcd× n is a +ve integer value for all values of a , b , c and d. What is the least number that n can be?				
A. 9900 B. 9999 C9900 D9999 E. CBD				
7.11.0000	2.3333	G. 5500		
Que.5 : a ,b, c and d are four single digit natural numbers such that 0.abcdabcd× n is a non +ve				
integer value for all values of a , b , c and d. What is the highest number that n can be?				
A. 9900	В. 9999	C9900	D9999	E. 0
Qus.6 : (0.77777)a + (0.777777)b = (0.66666)c, where a, b, c are distinct natural				
numbers, and also c is a multiple of 343. Find the possible number of ordered triplets (a, b, c),				
when value of	f 'c' is minimum			
(A) 342	(B) 393	(C) 292	(D) 293	
			10.0000	
Que.7: (0.555555)a + (0.55555)b = (0.33333)c, where a, b, c are distinct natural numbers, and also c is a multiple of 500. Find the possible number of ordered triplets (a, b, c),				
when value of 'c' is minimum.				
(A) 345	(B) 300	(C) 298	(D) 299	
			. ,	
Q.8: Classify the following numbers as rational or irrational:				
(i) √23 - IR				
(ii) √225-R				
(iii) 0.3796-R				
(iv) 7.478478-R				
(v) 1.101001000100001IR				