Real Numbers: Worksheet -11

I.

1.	The decimal expansion of $\frac{189}{125}$	will terminate aft	er:	[]			
	[A] 1 place of decimal	[B] 2 places of d [D] 4 places of d						
2.	The decimal representation of	$\frac{93}{1500}$ will be:		[]			
	[A] terminating	[B] non-termina	ting					
	[C] non-terminating repeating [D] non-terminating but non-repeating							
3.	The H.C.F. of $3^3 \times 5$ and $3^2 \times 5^2$	is:		[]			
	[A] 45 [B] 25	[C] 675	[D] 135					
4.	The product of a non-zero rat	<mark>ional number</mark> and	an irratio	nal nu	ımber			
	is:			[1			
	[A] always irrational	[B] always ration	nal					
	[C] rational or irrational	[D] one						
5.	The product of two irrational	numbers is: []						
	[A] always rational	[B] always irrational						
	[C] one	[D] always a nor	n-zero n <mark>un</mark>	nber				
6.	If a is an odd number, b is not divisible by 3 and LCM of a and b is p							
	then LCM of $3a$ and $2b$ is:			-[]			
	[A] p^2 [B] $5p$	[C] 6p	[D] 3p					
II.								
1.	$(\sqrt{5} + \sqrt{2} - \sqrt{7})$ is:			[]			
	[A] a natural number	[B] an integer						
	[C] a rational number	[D] an irrational	l number					
2.	$(-1)^n + (-1)^{8n} = 0$, when <i>n</i> is:			[]			
	[A] any positive integer	[B] any odd natural number						
	[C] any even natural number	[D] any negative	e integer					

3.	If p is a	prime	number,	then	LCM o	f p, p	2 and	p^3	is:	[
----	-----------	-------	---------	------	-------	--------	------------	-------	-----	---	--

[A] p [B] p^3 [C] p^2 [D] p^6

4. Decimal expansion of
$$\frac{3}{2^35^2}$$
 will be:

[A] terminating [B] non-terminating

[C] non-terminating and repeating [D] non-terminating but non-repeating

- 5. Which of the following cannot be expressed in the form of $\frac{p}{q}$, where p and q are integers and $q \neq 0$ is: [] [A] 0.45 [B] 0.3232...... [C] 0.10203000.... [D] 2.5
- 6. $n^2 1$ is divisible by 8, if n is:

[A] an integer [B] natural number

[C] an odd number [D] an even number

Third Apple