**Assignment –I ( Real Numbers)**

1. Find the HCF of the following using Euclid Division Lemma
2. 6,72 and 120
3. 75 and 45
4. 255 and 62
5. 408 and 96
6. 15 and 45
7. 135 and 255
8. 196 and 38220
9. 4052 and 12576
10. 455 and 42
11. 85 and 153
12. Show that every positive odd integer is of the form 4q+1 or 4q +3 where q is some integer
13. Show that any positive odd integer is of the form 6q+1 or 6q+3 or 6q+5 where q is some integer
14. Using EDL to show that the square of any positive integer is either of the form 3m or 3m+1 for some integer m
15. If HCF of 85 and 153 is expressed in the form of 85q -153, then find q
16. Show that out of the numbers a,a+2,a+4 only one is divisible by 3
17. Show that the square of any positive integer is of the form 5m, 5m+1 , 5m+4 for some integer m
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19. Show that any positive even integer is of the form 8q+2 or 8q+4 or 8q+6 where q is some integer