Holiday Assignment-5

Session -2021-22

Class -X

Mathematics

Q.1 Find the HCF by using the Euclid division lemma

(i) 2527 and 1653

(ii) 1261 and 442

(iii) 576 and 252

(iv) 1320 and 935

(v) 1624 and 1267

Q.2 True/false

1. Is every real number a natural number?

2. Is every rational number a natural number?

3. Is every whole number an integers ?

4. Is every natural number a whole number?

5.Is every integers   a natural number?

Q.3.   Show that any positive odd integers is of the form 8q+1, 8q+3,8q+5 or   8q+7, where q is some integers.

Q.4. Show that any positive odd integers is of the form 5q+1or 5q+3, where q is some integers.

Q.5 Show that any positive even integers is of the form 8q, 8q+2,8q+4 or 8q+6, where q is some integers.

Q.6   Show that any positive even integers is of the form 6q, 6q+2 or 6q+4 where q is some integers.

Q.7   Show that any positive odd integers is of the form 7q+1, 7q+3 or 7q+5 or where q is some integers.

Q.8.Use Euclid division lemma to find the HCF of 595 and 252 and express it in the form 595m+252n . Also find the value of m and n.

Q.9.Use Euclid division lemma to find the HCF of 143 and 481 and express it in the form 143m+481n . Also find the value of m and n.

Q.10 Use Euclid division lemma to find the HCF of 726   and 275 and express it in the form 726m+275n . Also find the value of m and n.