DOON PUBLIC SCHOOL

(C.B.S.E. Affiliation No. 1030502)

Mathematics

Holiday Assignment - 1

Session 2021-22

Class - X ***Chapter:- Real Numbers***

Q01 :} **Find the smallest number which when divided by 30, 40 and 60 leaves the remainder 7 in each case.**

Q02 :} **The dimensions of a room are 6 m 75 cm, 4 m 50 cm and 2 m 25 cm. Find the length of the largest measuring rod which can measure the dimensions in exact number of times.**

Q03 :} **The HCF of 2 numbers is 75 and their LCM is 1500. If one of the numbers is 300, find the other.**

Q04 :} **Prove that $\sqrt{6}+\sqrt{5}$ is irrational.**

Q05 :} **Can 72 and 20 respectively be the LCM and HCF of two numbers. Write down the reason.**

Q06 :} **If *a* and *b* are two prime numbers, write their HCF and LCM.**

Q07 :} **If *p* and *q* are two coprime numbers, write their HCF and LCM.**

Q08 :} **Without actual division, state whether the decimal form of $\frac{539}{5^3 x 2^2 x 7^2}$ is terminating OR recurring.**

Q09 :} **Find the HCF and LCM of 350 and 400 and verify that HCF x LCM=Product of the numbers.**

Q10 :} **Simplify: $\frac{2\sqrt{45}+3\sqrt{20}+10\sqrt{125}}{2\sqrt{5}}$**

Q11 :} **Write down 5 irrational numbers in radical form which are lying between 4 and 5.**

Q12 :} **Write down 2 rational numbers lying between $\sqrt{2}$ and $\sqrt{3}$.**