

By: www.thenotes.tk

maths home work no.4

duration 1hour

Date:12/4/2010 monday

Maximum marks: 20

Q1)which of the following is false:- (2)

a)A rational no. can be expressed in the form of  $p/q$  where  $p$  and  $q$  are integers and  $q \neq 0$

b)Decimal representation of a rational no. is either terminating or non terminating and repeating

c)Decimal representation of a rational no. is either terminating or non terminating and non repeating.

d)Numbers whose decimal representation is non terminating , non repeating are called irrational numbers.

Q2)Which of the following is a rational number ? (2)

a)43.123456799..... b)1.20120012000120000.... c)43.123456789

d)1.111211122111222.....

Q3)Which of the following rational numbers have terminating decimal expansion ? (2)

a)  $\frac{33}{7080}$  b)  $\frac{91}{21000}$  c)  $\frac{343}{2^2 \times 7^3 \times 5^3}$  d)none of these

Q4)W of the following rational numbers have non terminating repeating decimal expansion (2)

a) $17/572$  b) $23/200$  c) $31/3125$  d)none of above

Q5)Without performing long division state whether the following rational number will have a terminating decimal expansion or a non terminating repeating decimal expansion (4)

a) $\frac{15}{1600}$

b) $\frac{13}{3125}$

Q6)Express the following in the form of  $p/q$  where  $p$  and  $q$  are co prime and also express  $q$  in the form of  $2^n \times 5^n$  (4)

a)01675

b)2.12565

Q7)Express 0.37373.... in the form of  $p/q$  . also find the prime factorization of  $q$  when  $p$  and  $q$  are co- primes (4)