STEINMONT PUBLIC SCHOOL

Class IX

Time: 1 hour

MATHEMATICS

Max. Marks: 20

SECTION A (4*1)	
1) 2) 3) 4)	All the rational and irrational numbers make up the collection of State whether the statement is true or false: Every rational number is a whole number. Define irrational numbers. The decimal expansion of an irrational number is
SECTIO	N B (3*2)
6)	Express 0. 47777 in the form of $\frac{p}{q}$, where p and q are integers and $q \neq 0$. Check whether the following numbers are rational or irrational: a) 7.478478 b) $\sqrt{23}$ Rationalise the denominators of the following: a) $\frac{1}{\sqrt{7}}$ b) $\frac{1}{\sqrt{5}+\sqrt{2}}$
SECTIO	N C (2*3)
-	Show that $\sqrt{5}$ can be represented on the number line. Write the following in decimal form and say what kind of decimal expansion each has: a) $4\frac{1}{8}$ b) $\frac{3}{13}$
SECTION D (1*4)	

b) $(\sqrt{5} + \sqrt{2})^2$

10) Simplify each of the following expressions:

a) $(3 + \sqrt{3})(2 + \sqrt{2})$