SUCCESS KEY TEST SERIES

IX (English)

(Worksheet-1 Math-1 (Ch-1,2))

Mathematics Part - 1-

DATE:

TIME: 1 hrs

MARKS: 20

SEAT NO:

Q.1 A) Choose the correct alternative. **(4)**

1) $m \times (n \times o) = (m \times n) \times 0$ is ..... property of rational numbers.

a. Commulative b. Inverse c. Identity d. Associative

2) Write the rational number $0.\bar{3}$ in $\frac{p}{q}$ form.

a. $\frac{33}{100}$ b. $\frac{3}{10}$ c. $\frac{1}{3}$ d. $\frac{3}{100}$

3) The decimal expansion of rational number is always either ..... or ..... type.

a. Terminating

b. Non terminating and recurring

c. Non terminating and non recurring

d. Both a and b

4) All the elements of set P and set P' together form ..... set.

a. Null set b. Singletone set c. Universal set d. None of the above.

B) Solve the following questions. (Any one) **(2)**

1) Write the following sets using rule method.

B = {6, 12, 18, 24, 30, 36, 42, 48}

2) a) Write the subset relation between the sets.

P is the set of all residents in Pune.

M is the set of all residents in Madhya Pradesh.

I is the set of all residents in Indore.

B is the set of all residents in India.

H is the set of all residents in Maharashtra.

b) Which set can be the universal set for above sets?

Q.2 A) Complete the following Activities. (Any one) **(2)**

1) Write the following numbers in its decimal form..

$\frac{9}{11}$

$\frac{9}{11}$ = _____

2) Write the following sets using rule method.

D = {Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday}

= {_____}

B) Solve the following questions. (Any one) **(2)**

1) Decide whether set A and B are equal sets. Give reason for your answer.

A = Even prime numbers B = {x | 7x - 1 = 13}

2) Compare the surds : $7\sqrt{2}$, $5\sqrt{3}$

Q.3 Solve the following questions. (Any one) **(3)**

1) Multiply
$(3\sqrt{2}-\sqrt{3})(4\sqrt{3}-\sqrt{2})$

2) Write the simplest form of rationalizing factor for the given surds : $\frac{3}{5}\sqrt{10}$

Q.4 Solve the following questions. (Any one) **(4)**

1) In a class of 70 students, 45 students like to play Cricket. 52 students like to play Kho- Kho. All the students like to play atleast one of the two games. How many students like to play Cricket or Kho - Kho?

2) Represent the numbers $\sqrt{5}$ on a number line.

Q.5 Solve the following questions. (Any one) **(3)**

1) Write the simplest form of rationalizing factor for the given surds : $\sqrt{27}$

2) Represent the union of two sets by Venn diagram for each of the following.
X = {x|x is a prime number between 80 and 100}
Y = {y|y is an odd number between 90 and 100}