**10th Math Test**

Time: 1hr Ch: 3 Linear equation (Level 1) TM: 20

**Q.1.** Which of the following pairs of linear equations are consistent/inconsistent? If 2

Consistent :

(i) *x* + *y* = 5, 2*x* + 2*y* = 10 (ii) *x* – *y* = 8, 3*x* – 3*y* = 16

(iii) 2*x* + *y* – 6 = 0, 4*x* – 2*y* – 4 = 0 (iv) 2*x* – 2*y* – 2 = 0, 4*x* – 4*y* – 5 = 0

**Q.2**. find out whether the following pair of linear equations are consistent, or inconsistent. 2

(i) 2*x* – 3*y* = 8 ; 4*x* – 6*y* = 9 (ii) + y = 7; 9x-10y=14

(iii) 5x-3y=11; - 10x+ 6 = -22 (iv) + 2y = 8; 2x+3y=12

**Q.3 .** Half the perimeter of a rectangular garden, whose length is 4 m more than its width, is

36 m. Find the dimensions of the garden. 2

**Q.4 .** Solve ;- (1+1+2+1+2)

i) x+y = 14 ii) 3x-y=3 iii) - = -2

9x-3y=9

iv) x+y=5 and 2x-3y=4

+ =

v) + = -1 and x- = 3

**Q.4 .** word Problems ;-

**i)** Five years ago, Nuri was thrice as old as Sonu. Ten years later, Nuri will be twice as

old as Sonu. How old are Nuri and Sonu? 2

**ii)** The sum of the digits of a two-digit number is 9. Also, nine times this number is

twice the number obtained by reversing the order of the digits. Find the number. 3

**iii)** A fraction becomes , if 2 is added to both the numerator and the denominator.

If, 3 is added to both the numerator and the denominator it becomes . Find the 2

fraction.