



**TOPIC-Revision(1<sup>st</sup> Term)**

**Sub: Mathematics**

**Class-9**

**F. M. 15**

**WORK SHEET NO. -11**

**Date: 18.4.2020**

**Q.1) Choose the correct options: 1x15=15**

- i) The difference of two whole numbers is always \_\_\_\_\_ number.  
a) whole    b) natural    c) rational    d) irrational
- ii) The number of irrational numbers between two rational numbers is  
a) none    b) one    c) two    d) infinite
- iii) If  $4^x = 8^{1/3}$  then the value of x will be  
a)  $2/3$     b)  $3/2$     c) 2    d)  $1/2$
- iv) If  $4 \times 5^x = 500$  then the value of  $x^x$  is  
a) 1    b) 64    c) 8    d) 27
- v) In the rhombus ABCD if  $\angle ACB = 50^\circ$  then  $\angle ADB$  is  
a)  $50^\circ$     b)  $20^\circ$     c)  $30^\circ$     d)  $40^\circ$
- vi) If  $3^x = 9^y$  then the value of x:y is  
a) 1:1    b) 1:2    c) 2:1    d) 4:1
- vii) The straight line  $3x+5=0$  is parallel to \_\_\_\_\_ axis.  
a) x    b) y    c) none of the above.
- viii) If  $(x-3)^2 + (y-1/3)^2 = 0$  then the value of x/y is  
a) 3    b)  $1/3$     c) 9    d) 1
- ix) In a parallelogram ABCD, the point of intersection of diagonals AC and BD is O. If  $\angle AOD = 120^\circ$  and  $\angle BAC = 2\angle ADB$ , then  $\angle ACD$  is  
a)  $50^\circ$     b)  $60^\circ$     c)  $70^\circ$     d)  $80^\circ$
- x) What will be the remainder if the polynomial  $8x^3 + 4x + 1$  is divided by  $(2x+1)$ ?  
a) 2    b) 3    c) -2    d) 5
- xi) For what value of k, the polynomial  $x^3 + 3x^2 + 3x + k$  will be divisible by  $(x+3)$ ?  
a) 3    b) 6    c) 9    d) 12
- xii) If  $2x^2 + px + 6 = (2x-a)(x-2)$  is an identity then the values of a and p are  
a)  $a=3, p=7$     b)  $a=-3, p=-1$     c)  $a=3, p=-7$     d)  $a=6, p=-10$
- xiii) If 5 oranges are sold at the cost price of 6 oranges what will be the profit% or loss% of the seller?  
a) 20% profit    b) 20% loss    c) 25% profit    d) 25% loss
- xiv) The equivalent discount of two successive discounts of 10% each is  
a) 15%    b) 19%    c) 20%    d) 21%
- xv) If there is a loss of 15% by selling an article then what is the ratio of CP and SP?  
a) 20:17    b) 17:20    c) 11:20    d) 20:11