A**arambh CLASSES**

**Class X**

**MATHS**

**PREVIOUS YEAR BOARD QUESTIONS**

**1 mark question :**

1. **The LCM of two numbers is 9 times their HCF .The sum of LCM and HCF is 500 .Find the HCF of the two numbers .**
2. **Find a rational number between and .**
3. **If xy=180 and HCF (x,y)=3 ,then find the lcm (x,y)**
4. **Find the HCF of 1.08 ,0.36 and 0.9.**
5. **If are the zeroes of quadratic polynomial f(x) =x-x-4 ,find the value of .**
6. **If one of the zeroes of the quadratic polynomial is 2 ,then find the value of k.**
7. **If the sum of the zeroes of the quadratic polynomial 3is 3 ,then find the value of k .**
8. **Find a quadratic polynomial whose zeroes are 5-3 and 5 +3 .**
9. **How many solutions does the pair of equations x=5 and y=5 has ?**
10. **If 3 chairs and 1 table costs Rs 1500 and 6 chairs and 1 table costs Rs 2400 .Form linear equation to represent this situtaion .**
11. **For what value of k ,the pair of linear equations 3x+y=3 and 6x+ky=8 does not have a solution ?**
12. **If 217 x +131 y =913 and 131 x +217 y =827 ,then find the value of x+y.**
13. **If the sum of the roots of the qudratic equation k-11y +(k-23) =0 is more than the product of the roots ,then find the value of k .**
14. **Find the value of k for which the roots of the equation are reciprocal of each other .**
15. **Write the discriminant of the quadratic equation (x+5) =2 (5x-3) .**
16. **If x =,is asolution of the quadratic equation 3x +2kx-3 =0 ,find the value of k.**
17. **If the nth term of the AP is pn+q ,find its common difference .**
18. **Which term of the AP 10,7,4 ,…...is -41 ?**
19. **Find the 9th term from the end of the AP 5,9,13,…..,185 .**
20. **Which term of the AP 27,24,21 ,…..is zero ?**
21. **In the figure ,GCBD and GE BF .if AC =3 cm and CD =7 cm ,then find the value of**
22. **In ABC ,D and E are point on side AB and AC respectively ,such that DE BC . .if AE =2 cm ,AD =3 cm and BD =4.5 cm ,then find CE .**
23. **In ,DEBC ,then find the value of x .**
24. **In given figure ,DE BC .If and AC =14 cm ,find EC.**
25. **AOBC is a rectangle whose three vertices are A (0,-3) ,O (0,0) and B (4,0).Find the length of its diagonal ?**
26. **Find the value of x if ,the distance between points A (0,0) and B (X,-4) is 5 units .**
27. **In what ratio does x-axis divide the line segment joining the points A (3,6) and B (-12,-3) ?**
28. **Find the ratio in which the point (-4,6) divides the line segment joining the points A (-6,10)and B (3,-8) ?**
29. **If 2 tanA =3 ,then find the value of .**
30. **Evaluate : .**