**Aarambh Classes**

**Class X**

**MATHS WORKSHEET**

**ARITHMETIC PROGRESSI**ON

**1 MARK QUESTIONS :**

1. Find a and b so that the numbers a,7,b ,23 are in AP .

2. Which term of the AP 10,7,4 ,…....is -41 ?

3. How many two digit numbers are divisible by 3 ?

4. Find the 9th term from the end of the AP 5,9,13,…...,185 .

5. For what value of k will the consecutive terms 2k+1,3k+3 and 5k-1 form an AP ?

**2 MARKS QUESTIONS :**

6. Which term of the AP ,-3 ,,…......,is ?

7. Determine the AP whose third term is 5 and seventh term is 9 .

8. If the 17th term of an AP exceeeds its 10th term by 7,find the common difference .

9. Which term of the progression 20,19,18,17,…......is the first negative term ?

10. The fourth term of an AP is 11. The sum of the fifth and seventh terms of the AP is 34 .Find its common difference .

**3 MARKS QUESTIONS :**

11. How many terms are there in AP whose first and fifth term are –14 and 2 , respectively and the last term is 62 .

12. Which term of the AP 65,61,57,53 is the first negative term ?

13. If the mth term of an AP is and nth term is then show that its mnth term is 1 .

14. If the seventh term of an AP is and its ninth term is ,find its 63rd term .

15. The sum of the 2nd and the 7 th term of an AP is 30 . If its 15th term is 1 less than twice its 8th term ,find the AP .

**5 MARKS QUESTIONS :**

16. The ratio of the 11th term to 17th term of an AP IS 3:4 .Find the ratio of 5th term to 21st term of

the same AP .Also ,find the ratio of the sum of first 5 terms to that of first 21 terms .