**Assignment – 4**

Assigned To = All 10 Class Student

Note: All Questions are compulsory to attempt

**Chapter = QUADRATIC EQUATIONS**

**Submission Date = See on portal MM = 30**

Q1. **In an A.P., the sum of the first ten terms is -150, and the sum of its next 10 terms is -550. Find the A.P.**

Q2. **The sum of the first seven terms of an A.P. is 182. If its 4th and 17th terms are in a ratio 1: 5, find the A.P.**

Q3. **The sum of the first 7 terms of an A.P. is 63, and the sum of its next 7 terms is 161. Find the 28th term of this A.P.**

Q4. **The sum of the first q terms of an A.P. is 162. The ratio of its 6th term to its 13th term is 1: 2. Find the first and 15th terms of the A.P.**

Q5. **The third term of an A.P. is 7, and the seventh term exceeds three times the third term by 2. Find the first term, the common difference and the sum of the first 20 terms.**

Q6. **Two arithmetic progressions have the same common difference. The difference between their 100th terms is 100, what is the difference between their 1000th terms?**

Q7. **The 4th term of an A.P. is three times the first, and the 7th term exceeds twice the third term by 1. Find the first term and the common difference.**

**Q8. The eighth term of an A.P. is half of its second term, and the eleventh term exceeds one-third of its fourth term by 1. Find the 15th term.**

Q9. **The diagonal of a rectangular field is 60 metres more than the shorter side. If the longer side is 30 metres more than the shorter side, find the sides of the field.**

Q10. **Find two consecutive positive integers, the sum of whose squares is 365.**