

## 5. ARITHMETIC PROGRESSIONS

### 2 MARK QUESTIONS

1. Determine the sum of first 35 terms of an AP, if its second term is 2 and seventh term is 22.
2. The 6<sup>th</sup> term of an AP is zero. Prove that the 30<sup>th</sup> term of the AP is three times its 14<sup>th</sup> term.
3. Find the sum of the series

$$7 + 10\frac{1}{2} + \dots + 84$$

4. Poonam save Rs. 5 in the first week of the year and then increased her weekly saving by Rs. 1.75 each week. In which week will her weekly saving be Rs. 20.75?
5. Which term of the AP 3, 15, 27, 39, ... will be 120 more than the 21<sup>st</sup> term?

### ANSWERS

1. 2310
- 2.
3.  $1046\frac{1}{2}$
4. Rs. 20.75
5. 31