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Section A: Multiple Choice Questions (1 Mark Each)

1. The n^{th} term of an AP is given by $a_n = 3 + 4n$. The common difference (d) of this AP is:

1. (A) 3
2. (B) 4
3. (C) 7
4. (D) 1

2. If the sum of the first n terms of an AP is $3n^2 + n$, its first term is:

1. (A) 3
2. (B) 4
3. (C) 1
4. (D) 0

3. The 10th term from the end of the AP: 4, 9, 14, ..., 254 is:

1. (A) 209
2. (B) 204
3. (C) 214
4. (D) 199

Section B: Very Short Answer Questions (2 Marks Each)

4. Check whether -150 is a term of the AP: 11, 8, 5, 2, ...
5. Find the number of two-digit numbers divisible by 3.

Section C: Short Answer Questions (3 Marks Each)

6. The 4th term of an AP is three times its first term, and the 7th term exceeds twice the third term by 1. Find the first term and the common difference.
7. Find the sum of all odd integers between 100 and 300.

Section D: Long Answer Question (5 Marks)

8. The sum of the first 7 terms of an AP is 49 and that of 17 terms is 289. Find the sum of its first n terms.

Section E: Competency / Case-Based Question (4 Marks)

9. **School Assembly:** Students of a school in Visakhapatnam are standing in rows for morning assembly. The number of students in the first row is 16, in the second row is 20, in the third row is 24, and so on.
1. (i) Write the AP sequence representing the number of students per row. (1 Mark)
 2. (ii) If there are 15 rows in total, find the number of students in the final row. (1 Mark)
 3. (iii) Calculate the total number of students standing in the assembly area. (2 Marks)

