AP (MCQ)

1) The 10^{th} term of the sequence $\sqrt{3}, \sqrt{12}, \sqrt{27}, \ldots$ is —

(a) $\sqrt{243}$, (b) $\sqrt{300}$, (c) $\sqrt{363}$, (d) $\sqrt{432}$

2) If the 17^{th} term of an AP exceeds the 13^{th} term of the AP by 15, then the common difference is —

(a) 3 (b) 3.75 (c) 3.5 (d) 4.25

3) If a, b, c, d, e and f are in AP with common difference 3, then the value of e − c is —

(a) 3 (b) 5 (c) 6 (d) 9

4) For an AP, $a_5 = a_{10} = 71$, then a_{15} is —

(a) 72 (b) 71 (c) 76 (d) 66

5) If the sum to n terms of an AP is $3n^2+4n$, then the common difference of the AP is —

(a) 3 (b) 4 (c) 6 (d) 7

6) The sum of first 20 natural no. is —

(a) 110 (b) 170 (c) 190 (d) 210

7) In an AP, if $a = 3.5$, $d = 0$ and $n = 101$, then $a_n =$

(a) 0 (b) 3.5 (c) 108.5 (d) 104.5

8) If the n^{th} term of an AP is $(2n + 1)$, then the sum of its first three term is —

(a) 7 (b) 15 (c) 17 (d) 21

9) The 9th term from the end (towards the first term) of the AP 5, 9, 13, ..., 185 is —

(a) 149 (b) 153 (c) 157 (d) 161

10) If S_n denotes the sum of first n terms of an AP, whose common difference is d, then $S_n - 2S_{n-1} + S_{n-2}$ $(n \geq 3)$ is equal to —

(a) t_n (b) t_{n-1} (c) d (d) t_1

~~8) The~~ 11) The sum of $2 + 5 + 8 + \ldots + 152$ is

(a) 3924 (b) 3927 (c) 3936 (d) 3942