CAREER BLITZ **SA-2-PT-1**

A Responsible Education Management Company **Max Marks- 50**

Name: **Class: X** **Time: 1 Hour** **Date: 15-11-2015** **Course: VIKAAS**

MATHS

1.	The 11th term of the AP: $-5, \frac{-5}{2}, 0, \frac{5}{2}, ...is$, (A) –20 (B) 20 (C) –30 (D) 30	**3**
2.	The 21st term of the AP whose first two terms are –3 and 4 is (A) 17 (B) 137 (C) 143 (D) –143	**3**
3.	Which term of the AP: 21, 42, 63, 84,... is 210? (A) 9th (B) 10th (C) 11th (D) 12th	**3**
4.	What is the common difference of an AP in which $a_{18} - a_{14} = 32$? (A) 8 (B) – 8 (C) – 4 (D) 4	**3**
5.	Two APs have the same common difference. The first term of one of these is –1 and that of the other is – 8. Then the difference between their 4th terms is (A) –1 (B) – 8 (C) 7 (D) –9	**3**
6.	If the first term of an AP is –5 and the common difference is 2, then the sum of the first 6 terms is (A) 0 (B) 5 (C) 6 (D) 15	**3**
7.	In an AP if $a = 1$, $a_n = 20$ and $S_n = 399$, then n is (A) 19 (B) 21 (C) 38 (D) 42	**3**
8.	The n^{th} term of an AP cannot be $n^2 + 1$. Justify your answer	**4**
9.	If the numbers $n – 2$, $4n – 1$ and $5n + 2$ are in AP, find the value of n.	**4**
10.	Find the value of the middle most term (s) of the AP : –11, –7, –3,..., 49.	**4**
11.	Find a, b and c such that the following numbers are in AP: a, 7, b, 23, c.	**4**
12.	Determine the AP whose fifth term is 19 and the difference of the eighth term from the thirteenth term is 20.	**4**
13.	The 26th, 11th and the last term of an AP are 0, 3 and -1/5, respectively. Find the common difference and the number of terms.	**4**
14.	Split 207 into three parts such that these are in AP and the product of the two smaller parts is 4623.	**5**