Test Paper 1		
Ch: Arithmetic Progressions	Maximum Marks: 25	Duration: 1 hr
1. In an Ap a <sub>25</sub> -a <sub>12</sub> = -52 Its common dif (a) 4 (b) -4	ference is (c) 3 (d) -3	(1)
2. Sum of first 6 multiples of 5 is (a) 55 (b) 90	(c) 105 (d) 150	
3. How many terms are in AP 7, 16, 25,349 ?		(2)
4. Find the sum of 14 terms of the series $5+3+1+$		(2)
5. Which term of the sequence 17, $\frac{81}{5}$ , $\frac{77}{5}$ , $\frac{73}{5}$ , is the first negative term ?		(2)
6. Find the sum of all two digit natural numbers.		(3)
7. Which term of AP 3, 15, 27, 39, is 120 more than its 21 <sup>st</sup> term ?		(3)
8. Find the AP whose sum to n terms is $\frac{3n2+5n}{2}$ .		(3)
9. If 7 times the 7 terms of an AP is equal to 11 times its 11 <sup>th</sup> term, show that the AP is zero.		the 18 <sup>th</sup> term of the (4)
10. A spiral is made up of successive semicircles, with centers alternatively at A and B, starting with center at A first and then at B, with radii 0.5 cm, 1.0 cm, 1.5 cm, 2.0 cm and so on. The total length of		
such a spiral made up of 13 consecutiv	The total length of $\pi$ is so on. The total length of $\pi$ is semi-circles is ? (Take $\pi$ =22/7) (4)	