

QUESTION PAPER CODE 30/1/1 EXPECTED ANSWER/VALUE POINTS SECTION – A			
Q.No.	Q. No. 1 to 10 are multiple choice type question of 1 mark each. Select the correct option.		
1.	If one of the zeroes of the quadratic polynomial $x^2 + 3x + k$ is 2, then the value of k is (a) 10 (b) -10 (c) -7 (d) -2 Ans: (b) -10		
2.	The total number of factors of a prime number is (a) 1 (b) 0 (c) 2 (d) 3 Ans: (c) 2		
3.	The quadratic polynomial, the sum of whose zeroes is -5 and their product is 6, is (a) $x^2 + 5x + 6$ (b) $x^2 - 5x + 6$ (c) $x^2 - 5x - 6$ (d) $-x^2 + 5x + 6$ Ans: (a) $x^2 + 5x + 6$		
4.	The value of k for which the system of equations $x + y - 4 = 0$ and $2x + ky - 3 = 0$ has no solution, is (a) -2 (b) $\neq 2$ (c) 3 (d) 2 Ans: (d) 2		
5.	The HCF and the LCM of 12, 21, 15 respectively are (a) 3, 140 (b) 12, 420 (c) 3, 420 (d) 420, 3 Ans: (c) 3, 420		
6.	The value of x for which $2x, (x + 10)$ and $(3x + 2)$ are the three consecutive terms of an AP, is (a) 6 (b) -6 (c) 18 (d) -18 Ans: (a) 6		
7.	The first term of an AP is p and the common difference is q, then its 10 <sup>th</sup> term is (a) $q + 9p$ (b) $p - 9q$ (c) $p + 9q$ (d) $2p + 9q$ Ans: (c) $p + 9q$		
8.	The distance between the points $(a \cos \theta + b \sin \theta, 0)$ and $(0, a \sin \theta - b \cos \theta)$ , is (a) $a^2 + b^2$ (b) $a^2 - b^2$ (c) $\sqrt{a^2 + b^2}$ (d) $\sqrt{a^2 - b^2}$ Ans: (c) $\sqrt{a^2 + b^2}$		
9.	If the point $P(k, 0)$ divides the line segment joining the points $A(2, -2)$ and $B(-7, 4)$ in the ratio 1 : 2, then the value of k is, (a) 1 (b) 2 (c) -2 (d) -1 Ans: (d) -1		
10.	The value of p, for which the points $A(3, 1)$ , $B(5, p)$ and $C(7, -5)$ are collinear, is (a) -2 (b) 2 (c) -1 (d) 1 Ans: (a) -2		

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**Karen Morrison, Julia Smith, Pauline  
McLean, Rachael Horsman, Nick Asker**

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