INDIAN SCHOOL AL WADI AL KABIR

Class XI, Mathematics

Topic: Sets, (M.C.Q)

Q.1.	$A \cap A'$ *is a*							
	A	Null set	**B**	Universal set	**C**	Finite set	**D**	None of these
Q.2.	Roster form of $\{x: x \in Z: x^2 - 3x + 2 = 0\}$ is:							
	A	$\{-2, 1\}$	**B**	$\{1, 2\}$	**C**	$\{2, -1\}$	**D**	$\emptyset$
Q.3.	*Set builder form of* $\{0, 3, 8, 15\}$ is :							
	A	$\{x: x = 3n - 1, n \in N,\ n \leq 4\}$	**B**	$\{x: x = 2n + 1, n \in N, n \leq 4\}$	**C**	$\{x: x = n^2 - 1, n \in N, n \leq 4\}$	**D**	None of these
Q.4.	$A = \{0, 1\}$, B = $\{x: x \in N, x \leq 2\}, C = \{x: x \in W, x < 2\}, D = \{a, b\}$, then ….and … are equal sets.							
	A	A and C	**B**	A and B	**C**	B and C	**D**	A and D
Q.5.	$A = \{0, 1, 2\}$, B = $\{x: x \in N, x \leq 4\}, C = \{x: x \in Z, x \leq 2\}, D = \{a, b, c\}$, then ….and … are equivalent sets.							
	A	A and C	**B**	A and B	**C**	B and C	**D**	A and D
Q.6.	If $A \subset B$, *which of the following option is always correct*?							
	A	$A \cap B = B$	**B**	$A \cup B = A$	**C**	A − B = $\emptyset$	**D**	B − A = $\emptyset$
Q.7.	Two finite sets have m and n elements. The total number of subsets of the first set is 112 more than the total number of subsets of the second set. The values of m and n are:							
	A	7 and 4	**B**	6 and 3	**C**	10 and 5	**D**	Can't find
Q.8.	$-1 < x \leq 5$ *can write as*:							
	A	(-1, 5)	**B**	$(-1, 5]$	**C**	$[-1, 5]$	**D**	$[-1, 5)$
Q.9.	P = $\{x: \lvert x \rvert = 7, x \in N\}$, Q = $\{x: x \in N: x^2 + 2x + 1 = 0\}$, R = $\{x: x \in Z: x^2 = 9\}$, then …… is a singleton set.							
	A	P	**B**	Q	**C**	R	**D**	None of these
Q.10	$A = \{x: x = 8^n - 7n - 1, n \in N\}, B = \{x; x = 49n - 49, n \in N\}$, *then* :							

	A	$A \subset B$	**B**	$B \subset A$	**C**	A = B	**D**	$A \cap B = \emptyset$
Q.11	If A= $\left\{\left(x, \frac{1}{x}\right) : x \in R - \{0\}\right\}$ $and\ B = \{(x, -x) : x \in R\}, then$							
	A	$A \cap B = A$	**B**	$A \cup B = A$	**C**	$A \cap B = B$	**D**	$A \cap B = \emptyset$

Answers	**1**	A	**2**	B	**3.**	C	**4**	A
	5	D	**6**	C	**7**	A	**8**	B
	9	A	**10**	A	**11**	D		