



INDIAN SCHOOL AL WADI AL KABIR

Class XI, Mathematics

Topic: Sets, (M.C.Q & DESCRIPTIVE), 16-04-2020

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.	$A = \{0, 1\}, B = \{x: x \in N, x \leq 2\}, C = \{x: x \in W, x < 2\}, D = \{a, b\}$, thenand ... are equal sets.							
	A	A and C	B	A and B	C	B and C	D	A and D
Q.5.	$A = \{0, 1, 2\}, B = \{x: x \in N, x \leq 4\}, C = \{x: x \in Z, x \leq 2\}, D = \{a, b, c\}$, thenand ... 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.	$P = \{x: x = 7, x \in N\}, Q = \{x: x \in N: x^2 + 2x + 1 = 0\}, R = \{x: x \in Z: x^2 = 9\}$, 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	$A \cap B = \emptyset$

Q29.	In a survey of 60 people, it was found that 25 people read newspaper H, 26 read newspaper T, 26 read newspaper Z, 9 read both H & Z, 11 read both H & T, 8 read both T & Z, 3 read all three newspapers. Find i) The number of people who read at least one of the newspapers. ii) The number of people who read exactly one newspaper
Q30.	In a class of 140 students, 60 play football, 68 play hockey and 75 play cricket, 30 play hockey and cricket, 18 play football and cricket, 42 play football and hockey and 8 play all the three games. Use Venn diagram to find number of students: i) who do not play any of the three games. ii) who play only cricket iii) who play exactly two of the games.

Answers	1	A	2	B	3.	C	4	A
	5	D	6	C	7	A	8	B
	9	A	10	A	11	D	12	300
	13	450	14	1170	15	7	16	4
	17	-	18	-	19	-	20	-
	21	-	22	8, 6	23	-	24	-
	25	-	26	110, 80	27	6, 25	28	11, 29, 2
	29	52, 30	30	19, 35, 66				