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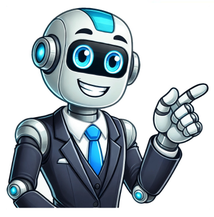

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If you have any queries regarding SCERT Kerala Textbooks Solutions, drop a comment below and we will get back to you at the earliest. Question 1. There are 200 individuals with a skin disorder, 120 had been exposed to the chemical A, 50 to chemical B and 30 to both chemical A and B, Find the number of individuals exposed toChemical A but not chemical B. (1)Chemical B but not chemical C. (1)Chemical A or chemical B. (1)Answer: 1. Given; n(U) = 200; n(A) = 120; n(B) = 50; n(A∩B) = 30 n (Chemical A but not chemical B) = n(A ∩ B′) = n(A) – n(A ∩ B) = 120 – 30 = 902. n (Chemical B but not chemical A) = n(A′ ∩ B) = n(B) – n(A ∩ B) = 50 – 30 = 203. n (Chemical A or chemical B) = n(A ∪ B) = n(A) + n(B) – n(A ∩ B) = 120 + 50 – 30 = 140.Question 2. In a survey of 400 students in a school, 100 were listed as taking apple juice, 150 as taking orange juice and 75 were listed as taking both apple as well as orange juice. Find how many students were taking neither apple juice nor orange juice. Answer: Let A – Apple juice; O – Orange juice be the sets. Given; n(U) = 400; n(A) = 100; n(O) = 150; n(A ∩ O) = 75 n (neither apple juice nor orange juice) = n(A′ ∩ O′) = n((A ∪ O)′) = n(U) – n(A ∪ O) = 400 – [n(A) + n(O) – n(A ∩ O)] = 400 – [100 + 150 – 75] = 400 – 175 = 225.Question 3. In a committee, 50 people speak French, 20 speak Spanish and 10 speak both Spanish and French. How many speaks at least one of these two languages? Answer: Let F – French; S – Spanish be the sets. Given; n(F) = 50; n(S) = 20;w(F ∩ S) = 10 n (speaks at least one of these two languages) = n(F ∪ S) = n(F) + n(S) – n(F ∩ S) = 50 + 20 – 10 = 60.Question 4. In a group of 65 people, 40 like cricket, 10 like both cricket and tennis, how many like tennis only and not cricket? How many like tennis? Answer: Let C – Cricket; T – Tennis be the sets. Given; n(C′ ∪ T) = 65; n(C) = 40; n(C ∩ T) = 10 n(C ∪ T) = n(C) + n(T) – n(C ∩ T) ⇒ 65 = 40 + n(T) – 10 ⇒ n(T) = 35 n (tennis only and not cricket) = n(T ∪ C′) = n(T) – n(T ∩ C) = 35 – 10 = 25.Question 5. Let A and B be two sets such that n(A) = 20, n(A ∪ B) = 42, n(A ∩ B) = 4. Findn(B) (1)n(B – A) (1)n(A – B) (1)Answer:n(A ∪ B) = n(A) + n(B) – n(A ∩ B) ⇒ 42 = 20 + n(B) – 4 ⇒ n(B) = 26n(B – A) = n(B) – n(A ∩ B) = 26 – 4 = 22n(A – B) = n(A) – n(A ∩ B) = 20 – 4 = 16.Question 6. A = {x: x is a natural number less than 8}Write in roster form. (1)Write a subset of A containing all even numbers in A. (1)Which of the following could not be the number of elements of power set of a set [2, 8, 10, 16]? (1)Answer:A = {1, 2, 3, 4, 5, 6, 7}{2, 4, 6} or {2, 4, 6, 7}10. (since other are powers of 2.)Plus One Maths Sets Four Mark Questions and AnswersQuestion 1. Observe the Venn diagram. Write in roster form. (1)Verify that (A – B) ∪ (A ∩ B) = A (2)Find (A ∩ B)′ (1)Answer:A = {1, 3, 4, 8} ; B = {2, 3, 5}A – B = {1, 4, 8}; A ∩ B = {3} ⇒ (A – B) ∪ (A ∩ B) = {1, 3, 4, 8} Hence; (A – B) ∪ (A ∩ B) = A(A ∩ B)′ = {1, 2, 4, 5, 6, 7, 8, 9}Plus One Maths Sets Practice Problems Questions and AnswersQuestion 1. Write the following sets in roster form.A = {x: x xis an integer and -3 < x < 7}B = {x: x ∈ N; x ≤ 6}C = {x : x is a vowel in English alphabet}D = {x : x is a two-digit natural number such that the sum of its digits is 8}E = {x: x ∈ Z; \(-\frac{1}{2}