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Answers Key:

2 Marks

1. {I, N, D, A}
2. {M, I, S, P}
3. $B = \{\frac{1}{2}, \frac{1}{4}, \frac{1}{6}, \frac{1}{8}, \frac{1}{10}\}$.
4. $C = \{x : x = \frac{n}{n+1}, n \in N\}$.
5. Q = The set of Prime numbers between 5 and 31
6. C and D does not have the same elements. So, Unequal sets
7. D is a null set
8. {square, rhombus}
9. { }, {a}, {a, b} {a, {a, b}}
10. {{ }, {1}, {2}, {3}, {1, 2}, {1, 3}, {2, 3 }, {1, 2, 3}}
11. P(E)= {{ }}
12. W = {red, blue, yello}
    n(W) = 3
    The number of subsets = n[P(W)] = 2^m
    = 2^3 = 8
    Number of proper subsets of W = n[P(W)]-1
    = 8 - 1
    = 7 (or)
    Number of proper subsets of W = 2m-1
    = 2^3-1 = 8 -1 = 7
13. n(A) = 4
    n[P(A)] = 2^m = 2^4
    = 16
14. C ∩ D = { }
    C and D are disjoint sets.
15. E = {1, 2, 3, 4, 6, 8, 12, 24} F = {3, 6, 9,12,15.....27}
    E ∩ F = {3, 6, 12} Since both E and F have common elements 3, 6, 12 so they are overlapping sets.