Questions:

1. **Write the following in set roster notation:  
   the set P of odd natural numbers less than 7**

Answer P = {1, 3, 5}

1. **Let ∪= {a, b, c, d, e, f, g}, A= {a, b, c}, B= {c, d}  
   Find A'∪B'.**

A' = U-A

= {a, b, c, d, e, f, g} - {a, b, c}

= {d,e,f,g}

B'=U-B

={ a, b, c, d, e, f, g}- {c, d}

= {a,b,e,f,g}

So

A'∪B' = {a, b, c, d, e, f, g}

1. **Let ∪={a, b, c, d, e, f, g}, A={a, b, c}, B={c, d}  
   Find A-B'**.

B'=U-B

={ a, b, c, d, e, f, g}- {c, d}

= {a,b,e,f,g}

A-B' ={a, b, c}-{a,b,e,f,g}

= {c}

1. **Let ∪= {1, 2, 3, 4, 5, 6}, A= {1, 2, 3}, BC= {4, 5, 6}  
   Find (B – A)'∩C**

B-A= {3, 4}-{1, 2, 3}

= {4}

(B – A)' = {1, 2, 3, 4, 5, 6}- {4}

= {1, 2, 3, 5, 6}

(B – A)'∩C = {1, 2, 3, 5, 6}∩{4, 5, 6}

={5,6}

1. **Let ∪= {x: x∈ N, 3 ≤ x < 6}.  
   Find n(∪).**

U= {3,4,5}

n(U) = 3