Part B. Give deductions for the following arguments.

1. 1. (all P are L) ⊃ (all P are A)
   2. (all P are A) ⊃ ~ (some P are C)
   ∴ (all P are L) ⊃ (no P are C)

2. 1. some P are I
   2. all I are F
   3. (some P are F) ⊃ ~ (all P are non-D)
   ∴ some P are D

3. 1. (all E are non-Q) ⊃ (all M are non-Q)
   2. some M are F
   3. no non-Q are F
   ∴ some E are non-non-Q

4. 1. all N are non-M
   2. some D are B
   3. all B are N
   ∴ ~ (all D are M)
Ex. 3. 8. B.  

Name ____________________ / _______

5.  1. (some P are A) ∨ ~(some P are A)  
2. (some P are A) ⊃ (all E are M)  
3. ~(some P are A) ⊃ (no E are M)  
    :. (all E are M) ∨ (no E are M)  
    :. (some E are M) ⊃ (all E are M)  

4. ____________________________________________  
5. ____________________________________________  
6. ____________________________________________  
7. ____________________________________________  

5.  1. (some P are A) ∨ ~(some P are A)  
2. (some P are A) ⊃ (all E are M)  
3. ~(some P are A) ⊃ (no E are M)  
    :. (all E are M) ∨ (no E are M)  
    :. (some E are M) ⊃ (all E are M)  

6.  1. all P are non-L  
2. (all non-O are L) & (all non-S are L) & (all non-B are L) & (all non-E are L)  
    :. (all P are O) & (all P are S) & (all P are B) & (all P are E)  

3. ____________________________________________  
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8. ____________________________________________  
9. ____________________________________________  
10. ____________________________________________  
11. ____________________________________________  
12. ____________________________________________  

7.  1. (some P are F) ∨ (no P are F)  
2. (some P are F) ⊃ [(some A are G) & (some A are E)]  
3. (no P are F) ⊃ [(no A are G) & (no A are E)]  
    :. (some A are E) ∨ (no A are G)  

4. ____________________________________________  
5. ____________________________________________  
6. ____________________________________________  
7. ____________________________________________  

8.  1. (all G are M) & (all G are R) & (all R are G)  
2. (all E are M) & (all E are P) & (all P are E)  
    :. (all non-M are non-R) & (all non-M are non-P)  

3. ____________________________________________  
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