**CSCE 747 - Model-Based Testing Activity  
Name(s):**

1. **Draw a decision table for the following specification. Be sure to indicate any constraints that you feel should be specified on the combinations of values.**  
     
   PDiscount is a function that determines the final price of an airplane ticket, based on the following conditions:  
     
   If the passenger is an infant (<2 years old), and the flight is domestic, than an 80% discount shall be given. If the passenger is an infant and the flight is international, than a 70% discount shall be given.  
     
   If the passenger is a child (2-16 years old) and an early reservation is made, than a 20% discount shall be given. If the passenger is a child, but a normal reservation is made, than a 10% discount shall be given.  
     
   If the passenger books an international flight in the off-season, then a 15% discount shall be given.  
     
   If an early reservation is made, then a 10% discount shall be given.   
     
   If multiple of the above combinations of conditions are met, the largest discount shall be awarded.
2. **How many tests would be required for compound condition coverage?**
3. **Derive test cases to achieve MC/DC coverage over the decision table.**