**SC20F Weather Systems and Map Assignment Name:**

**Part A: Pressure Systems**

1. What causes the following:
   1. High pressure systems
   2. Low Pressure Systems:
2. Describe the spin and the type of weather associated with:
   1. High pressure systems
   2. Low Pressure systems
3. Define the following:
   1. Warm Front
   2. Cold Front
4. What type of weather would you expect when a warm and cold front collide? Explain.

**Part B: Weather Maps**

Use the attached weather maps to answer the questions.

1. On map A, find Winnipeg, Manitoba.
   1. What type of pressure system is closest to us?
   2. What kind of skies would expect to see from this pressure system?
   3. What type of front is passing over us?
   4. What direction is this front moving to?
   5. What temperature would we be experiencing?
   6. Using a red marker, outline all the warm fronts you can find.
   7. Using a blue mark, outline all the cold fronts you can find.
2. Use map B for the following questions:
   1. Highlight the occluded front.
   2. What type of front has passed over Winnipeg recently?
3. Use map C for the following question:
   1. In what province are the fronts not moving?
   2. Highlight this front.
4. Use map D for the following questions.
5. Find the jet stream on the map and highlight it.
6. Label and Shade in 1 area on the map that would be experiencing cold because of the jet stream.
7. Label Shade in (using a different colour) 1 area on the map that would be experiencing warmth because of the jet stream.