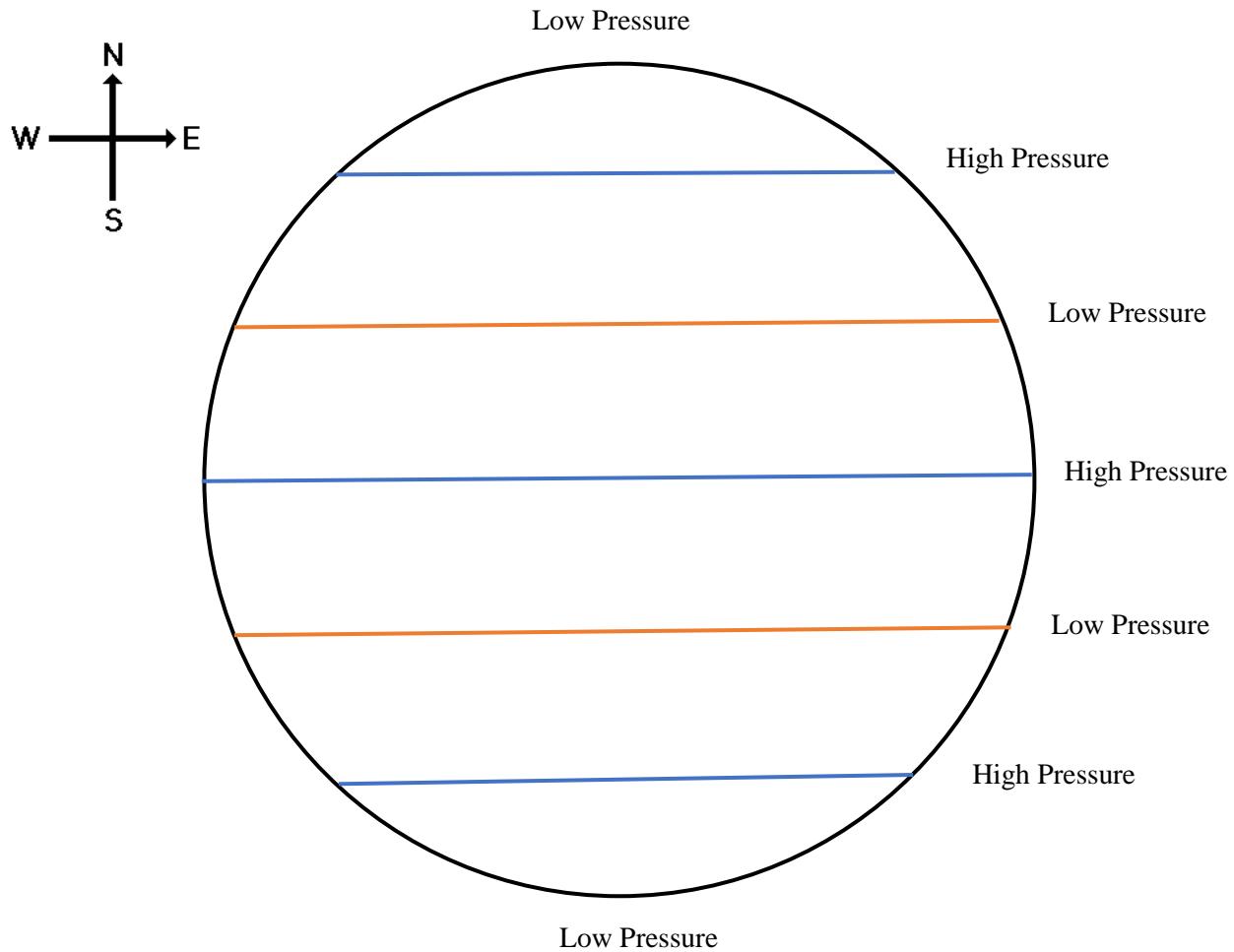


EXTRA CREDIT

Answer any one of the following questions:

(5 points)



The diagram given above represents an imaginary planet which rotates from **east to west** and with the pressure belts as labelled. Sketch the wind patterns for this planet.

(or)

Consider an ice block of mass 5 kg at an initial temperature of 0 °C. Calculate the total amount of heat required to raise its temperature to 20 °C.

(Latent heat of fusion of ice = 335 KJ/kg, Specific heat of water = 4.19 KJ/kg K)