

## Final Exam Review #4

- 1) Which will dissolve best in carbon disulfide, formaldehyde (CH<sub>2</sub>O) or boron trichloride? Explain your answer.
- 2) What intermolecular forces would you expect would be prevalent in each of the compounds mentioned above?
- 3) If I were to dissolve 41 grams of sodium chloride in 4500 mL of water, what would the boiling point of this solution be?  $K_b = 0.52^{\circ}/m$ .
- 4) Explain why the solution in problem 3 would have a lower vapor pressure than pure water.
- 5) What is a phase diagram, and what is it used for?
- 6) Define the following terms:
  - triple point:
  - colligative property:
  - colloid:
  - entropy:
  - normal boiling point: