

# **Chemistry 235 Semester 01-2009**

## **Homework for Submission #4**

Answer the following question and submit it for marking on or before Monday 28th September 2009 in the chemistry drop box. If any answers show evidence of copying, the whole exercise will attract zero marks.

Fajan's rules are sometimes used to predict (qualitatively) the degree of covalent character in an ionic bond, and to predict whether a substance is likely to be predominantly covalent or ionic. Give an account of Fajan's rules, illustrating your answer with examples, and physical data such as melting points, boiling points and solubilities.

Most of your work so far has tended to lack organisation, to be repetitive and to include irrelevant material. Use of subheadings or sections, tables and diagrams (which must be referred to in the main text) is very useful. If diagrams are copied, their sources must be referenced.