

Inorganic Cumulative Exam

Prof. B. K. Teo, Oct. 6, 05

Explain/describe/discuss, with equations/examples/reactions, at least *six* of the following:

1. Fermi-Dirac distribution.
2. Direct vs indirect band gap semiconductors.
3. MOSFET.
4. Curie-Weiss law.
5. Ferrimagnetism.
6. Hume-Rothery rules.
7. Dewar-Chatt-Duncanson model.
8. Jahn-Teller distortions.
9. Zeise's salt.
10. Biphase catalysis.
11. Ionic liquids.
12. Relativistic effects.