

# **PHYS 178 – Assignment 5**

**Due: Monday 15 September 2008**

This assignment contributes 2% to your final grade. Please write brief answers directly on the sheet in the spaces provided (and on the back if necessary). The assignment should be turned into the PHYS 178 assignment box on level 2 of E7B, just outside the doorway to E7A.

1. What is the evidence that Jupiter formed in a “protoJovian” nebula, analogous to the solar nebula?

2. Describe the difference in the appearance of craters on Jupiter’s icy moons to those on the icy moons around Saturn.

3. Some satellites are dark on one side and bright on the other. Why is this?

4. Why are planetary rings aligned so precisely with the equatorial plane of their host planet?

5. What is a “shepherd moon”?