**0Lehninger 5e**

**P566 20**

**P567 22 27**

**P612 14**

**P613 15**

**P802 1 2**

**or**

**Lehninger 6e**

**P584 20 22 27**

**P631 14 15**

**P828 1**

**P829 2**

**or**

**Lehninger 7e**

**P572 20 22**

**P573 27**

**P617 14 15**

**P807 17 18**

**Extra question:**

1. Many bacterial species can carry out the reactions of gluconeogenesis. Would you expect to find the gluconeogenic enzyme glucose 6-phosphatase in such bacteria? Why or why not?
2. Explain why glycolysis and gluconeogenesis can be irreversible processes in the cell.