Name:
Due Monday, November 17, 2008.

Time Synchronization

1. What is the benefit of post-facto time synchronization?

2. We discussed a decomposition of packet delay that included the following sources
   of delay: send time, access time, transmission time, propagation time, reception
   time, and receive time. Which source of delay is the easiest to eliminate?
   Explain your answer.

3. A metric for evaluating a time synchronization protocol is scalability – how does
   the protocol perform as the number of nodes you wish to synchronize gets large?
   Is TPSN scalable? Why or why not?

AODV Routing

1. Discuss one benefit of using an on-demand routing protocol in a sensor network.

2. Will a node always send a RREP in response to a RREQ? Explain your answer.

3. A routing table entry specifies a list of active neighbors for a particular route. Explain why.

Directed Diffusion

1. Why does a sink send an initial interest message with an interval larger than the desired interval?

2. Explain the term *gradient*. What is a gradient and why is it important?

3. Would you ever need to use both AODV and directed diffusion in a given application? Explain your answer.