Homework 11 – Z10 no outline required

Answer the following questions on TinyOS for Chapter Z10

Google the following search terms

"TinyOS FAQ"

Find the version from Stanford university.

Answer the following questions:

1. What is TinyOS

2. How is TinyOS different than Arduino

3. What are TinyOS strengths

4. What are TinyOS weaknesses

Google the following search terms

"TinyOS scheduler"

Find the document "Schedulers and Tasks – TinyOS"

If that document is unavailable, a copy is located at:

http://web.eng.fiu.edu/watsonh/eel4730/Appendix/38864732.pdf

Answer the following questions

5. What are the two basic computational abstractions?

6. What is the scheduling policy?

7. TinyOS tasks do two things which are?

   a) They run _____

   b) Pre-empt one another? _____

8. The task queue in TinyOS 1.x is implemented as what?

9. All tasks from all components share a single resource: one misbehaving component can cause what?

10. In TinyOS 2.x, a basic post will only fail if and only if the task has what?

11. In TinyOS 2.x, the scheduler is what?

12. The basic task in TinyOS 2.x is what?

13. The Scheduler interface has commands for initialization and running tasks, and is used by TinyOS to do what?

14. The scheduler is responsible for putting the processor to sleep predominantly for what?

15. If two tasks must run in a particular temporal order, this order should be enforced by the earlier task doing what?