Worksheet for Examination I (Fall 2010)
MEPS 316

Be sure that you have read Chapters 1 of your text and review the quizzes!

I. Review Questions

1. What is the difference between a eukaryotic and prokaryotic cell?

2. Differentiate between the symplast and apoplast. What forms the continuity of the symplast?

3. State a function for each of the following: rough ER, smooth ER, Golgi, ribosomes, mitochondrion, chloroplast, nucleus, nucleolus, vacuole, peroxisome, glyoxysome, spherosome, microtubules, microfilaments

4. What is meant by the plant cytoskeleton? What is it composed of?

5. What 2 organelles are believed to have originated by endosymbiosis? What is endosymbiosis?

6. What is the significance or importance of the pores in the nuclear membrane?

7. Why is the nucleus referred to as the control center for the cell?

8. Be familiar with membranes and membrane structures

II. Terms to Understand

- processes and functions
- prokaryote vs. eukaryote
- autotroph
- protoplast/protoplasm
- Golgi bodies
- apoplast/symplast
- integral vs. peripheral proteins
- tonoplast
- cisternae
- polysome
- cristae vs. matrix
- thylakoids vs. stroma
- peroxisome
- glyoxysome
- spherosome
- microtubule (tubulin)
- microfilament (actin)
- chromatin
- nucleoplasm
- nucleolus
- chilling injury
- saturated fatty acids
- unsaturated fatty acids
- phospholipids