

Unit 3 – The Amazing Cell

Study Guide

1. Viruses
 - a. Parasitic
 - b. How they reproduce
 - c. Considered Living
 - d. Limited Treatment
2. Prions
 - a. Proteins
 - b. Transmission
 - c. Manifestation
 - d. Diseases
 - i. Scrapie
 - ii. BSE
 - iii. Chronic Wasting Disease
3. Cell Anatomy
 - a. Prokaryote vs. Eukaryote
 - b. Cell Membrane
 - i. Form
 - ii. Processes
 1. Diffusion
 2. Osmosis
 3. Hypotonic, Isotonic, and Hypertonic
 - c. Nucleus
 - d. Cytoplasm
 - e. Organelles
 - i. Mitochondria
 - ii. Golgi Apparatus
 - iii. Endoplasmic Reticulum
 1. Smooth
 2. Rough
 - iv. Ribosomes
4. Cell Reproduction
 - a. Mitosis
 - b. Mutation