

## **Final Exam Study Guide – Simplified Content Outline**

### **Chapter 6 – Biomes**

1. definition
2. vegetation types
3. biomes and climate
  - a. temperature and precipitation
  - b. latitude and altitude
4. forest biomes
  - a. tropical
    - i. layers
  - b. temperate forests
    - i. deciduous
  - c. Tiaga
5. Grassland Desert and Tundra – plants, animals and features
  - a. Savanna
  - b. Temperate grasslands
  - c. Chaparral
  - d. Deserts
  - e. Tundra

### **Chapter 11 – Water**

1. Water cycle
2. Global Water distribution
3. Surface water
  - a. Rivers and watersheds
4. Groundwater
  - a. Aquifer
  - b. Porosity and permeability
  - c. Recharge zone
  - d. Wells
5. Water use and management
  - a. Global use
  - b. Residential use
    - i. Water treatment
    - ii. Pathogens vs. potable
  - c. Industrial
  - d. Agricultural
  - e. Management projects
  - f. Conservation
  - g. Future solutions
6. Water pollution
  - a. Point vs. non point sources
  - b. Water pollutants – main cause/source - details
    - i. Wastewater
    - ii. Eutrophication

- iii. Thermal
- iv. Groundwater pollution
- v. Ocean pollution
- c. Water pollution and ecosystems
- d. Cleaning up

### **Chapter 12 Air**

- 1. define
- 2. primary vs. secondary pollution
- 3. sources of pollution
  - a. motor vehicles
  - b. industrial
  - c. case studies in smog
  - d. indoor air pollution
  - e. noise pollution
  - f. light pollution
- 4. Short term vs. long term effects
- 5. remediation
- 6. Acid precipitation
  - a. Cause
  - b. Impact

### **Chapter 13 – Atmosphere and Climate**

- 1. factors that determine climate
- 2. global winds
- 3. ocean circulation
- 4. topography
- 5. other factors
- 6. seasonal changes
- 7. Ozone shield
  - a. Chemicals that are involved
  - b. Ozone hole issue
- 8. Global Warming
  - a. Greenhouse effect
  - b. The role of carbon
  - c. Models that predict warming
  - d. Consequences of warming
  - e. Reducing the risks