**Chapter 12**

1. What is the root cause of Food Insecurity?
2. Distinguish between chronic under nutrition and chronic malnutrition.  What are the harmful effects of each?
3. What are the health effects from a lack of the following; iodine, Vitamin A, iron?
4. Describe the differences in the 2 types of croplands, Industrial agriculture and Plantation agriculture.  Which is used in the USA? Why is Plantation agriculture used in less developed countries?
5. What is the advantage to the new method of farming using greenhouses?
6. Why does the modern industrialized farming violate the principles of sustainability?
7. Traditional agriculture supplies about 1/5 of the world’s food.  Describe the 3 types: Traditional subsistence, traditional intensive, slash & burn.
8. What is the “Green Revolution”? :”Second Green Revolution”? Describe industrialized food production in the USA.
9. Distinguish between cross breeding and genetic engineering.
10. What are GMO’s? 80% of our vegetables are genetically engineered yet our labels do not reveal this.  How can we find out if they are modified? ( connections)
11. Describe the growth of industrialized meat production.  What are CAFOs? Describe the animal’s environment and food intake in a CAFO.
12. Why does it take about 10 units of non-renewable fossil fuel energy to put 1 unit of food energy on the table
13. What are the major advantages of  today’s agricultural system

(high-yield modern agriculture)? What are the harmful environmental impacts of today's agricultural practices?

1. What is soil erosion? What are the 2 major environmental effects from soil erosion?
2. Discus what desertification  is and what human activities cause it?
3. What are the consequences or excessive irrigation of crops?  What are the consequences of salinization? Waterlogging?
4. How does fertilizers, pesticides and water play a major role in the “Green Revolution”?
5. What are the advantages and disadvantages to animal feedlots?
6. What is the connection between feeding livestock and “ Ocean Dead Zones”?
7. What and are the advantages and disadvantages to aquaculture?
8. How does the integrated pest management (IPM) reduce the use of pesticides? What are its advantages and disadvantages?
9. WHAT ARE THE 2 Main approaches used by governments to influence food production?  How have they used subsidies to influence food production and what have been some of their effects?
10. Define soil conservation.  Describe how each of these methods work: terracing, contour plowing, strip cropping, alley cropping ( agroforestry)