



4. (6 pts) Explain the process by which the desert circled forms. Under what circumstances is above-average rain likely?
5. (8 pts) A. Explain the effect of the illustrated process upon climate patterns. B. What is one desert resulting from this effect?
6. (8 pts) A. Pick a major world event shown, describe it, and explain its impact on oil prices. B. Explain the process by which oil forms. Sketch if needed.

7. (8 pts) A. Which of the OPEC countries shown in yellow are not Arab? B,C.What are two other Middle Eastern or Asian producers of significant amounts of oil? D. Why does the U.S. get so much of its oil from Canada, Mexico, and Saudi Arabia?
8. (8 pts) What is the greenhouse effect? Sketch and label it.
9. (8 pts) What is the difference between renewable and non-renewable energy? Give two examples of each.
10. (6 pts) Sketch and label the process by which a rainshadow desert forms.

11. (12 pts) What are the main processes in soil formation? Sketch and label a typical soil profile in a humid climate. How are a) rainforest and b) desert soil profiles likely to differ?
12. (8 pts) Sketch a confined aquifer, such as the Bighorn Basin, labelling the recharge and discharge areas, confining layer, and direction of flow. Why is Thermopolis Hot Spring hot?
13. (8 pts) Sketch an unconfined aquifer, such as at my home in Walnut Cove, NC, labelling the recharge and discharge areas, water table, probable spring location, and direction of flow.