GEOG 3510
Atlas and Mapping Exercise

Answer the questions below on the attached answer key.

Refer to Goode’s Atlas of North America

Introductory pages:
1. The ratio of distance on the map to distance on the earth’s surface is defined as?
2. A map of city streets at a scale of 1:25,000 is a (small? or large?) scale map?
3. Name the map projection used for North America that preserves area (equal-area), but does not preserve shape.
4. Which type of thematic map portrays quantities that vary smoothly over the surface of the earth?
5. Which type of thematic map is used to show distribution, especially of agricultural commodities?
6. Which type of thematic map uses distinctive colors in predefined areas like counties or states to represent different quantities?
7. Refer to page 68. What symbol is used to designate ice caps and glaciers?
8. What symbol is used to designate the peaks of land features?
9. What symbol is used for populated places of 1,000,000 or more?
Refer to page 1-2:
10. Which two regions of the United States have the most nuclear power plants (Southwest, northwest, northeast, etc.)?
11. What percentage of ground water is used for irrigation and livestock?
12. What region of the North America is subject to desertification?
13. What to regions of the United States received 60-80 inches of annual precipitation?
14. A population density below 2.5 persons per sq. mi. is found in which region of the United States?
15. Name the two major vegetation types in Canada.
Refer to pages 4-5
16. Follow the line showing the “limits of continental glaciation” to Cincinnati. As one continues west, the limit of glaciation roughly follows which two major rivers?
17. Name the major mountain complex running from northern California to the Canadian border that is characterized by volcanics and lava flows.
Refer to pages 8-9
18. A large contiguous belt of Mesquite is found in which state?
19. In which state will one find the only large area of broadleaf evergreen Mangrove trees?
Refer to pages 10-11
20. Name three states west of the Mississippi River that grow cotton.
21. What type of livestock production characterizes the Southeastern region of the United States?
   Refer to pages 14-17.
22. What proportion of the U.S. population is urban?
23. The majority of American Indians (as indicated by the size and number of the proportional symbol) are found in which four states?
24. Describe the regions of the country experiencing the highest decrease in population.
25. Which areas of the country have the lowest rate (below 30%) of educational attainment?
26. Which areas of the country have the highest unemployment rate?
   Refer to pages 18-20
27. Which sector of the labor accounts for nearly 25% of the U.S. Non-farm Labor Force?
28. What are the three leading types of manufacturing in the U.S.?
29. Describe three regions of North America with the deepest waterways (25 feet and over).
30. Which state has the most square miles of National Wildlife Refuges?
   Refer to pages 58-59
31. Which principal city on the Big Island of Hawaii receives over 100 inches of rain annually?
32. Which country in Middle America has the highest proportion of Amerindians?
33. Which two countries in Middle America has the highest European ancestry?
   Refer to pages 76-81
34. Which country in North America has the highest percentage of cropland area?
35. With the exception of one commodity, Mexico leads Canada in the production of grain and livestock. Name that commodity.
36. What is the highest and lowest GDP per capita in North America?
37. Over the last decade, with North American country has lost the most forest cover?
38. Which country has the highest number of endangered mammals? Which has the highest number of endangered fish and invertebrates? What is the source of this information?
   Refer to pages 82-83
39. List the names of the three longest single rivers in North America.
40. The cities with the highest population are Los Angeles, Chicago, and New York. Rank the largest U.S. metropolitan areas (associated with the above cities) and their respective populations.

The remainder of the exercise requires a visit to the second floor of the Campus Library. The atlases listed below will be placed together on the map cases, just left of the Reference Desk.

41. Chapter 2. Read the section entitled “Northeast and Southeast Peoples.” Name the two major mound cultures discussed in this section.

42. Chapter 5. Locate the map, “Eastern Trails and Roads.” Name the five western routes that cross through the Appalachian Mountains.

Refer to the *Historical Atlas of the United States* G1201.S1 N3 1988

43. Go to the section on “Boundaries.” What land survey type predominates in the Western States?

44. Where does one find the long-lot survey in use?

Refer to the *Historical Atlas of Canada* G1116.S1 H3 2002

45. Look-up “Acadian deportation” in the index. Read the appropriate section of the text, including maps. What is unique about the construction of Acadian farmlands?

Refer to, *We the People: an Atlas of America’s Ethnic Diversity* E 184 A479 1988

46. Go to Chapter 12. Which two states have the highest number of concentration of Japanese?

47. Select your ancestry group. What area of the country do you find the highest percentage of the group you selected?

Refer to the *Atlas of American Women* G1201.E1 S5 1987

48. Go to Chapter 5. Where does one find the greatest number of women’s colleges?

49. Go to Chapter 6. What are of the country has the highest rate of girls’ sports participation?

**Extra Credit:**

For 5 points extra credit, compose and answer a question using the above atlases (or another of your choosing located in the library). You will be awarded extra credit if the question is similar to those listed above (including the details: atlas title, page number, correct answer etc.), is not too similar to those on the exercise, and is sufficiently difficult to be included in future exercises.
Name:

GEOG 3510 – Atlas Exercise Answer Key

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