1. On March 21 or 22 (depending on the year), the angle of the rays of the sun are perpendicular at:
   a) 23 1/2 degrees N;  
   b) 23 1/2 degrees S;  
   c) the equator  
   d) the Tropic of Cancer;  
   e) at the Tropic of Capricorn;

2. Which state in the demographic transition is characterized by high, unchanging birth rates combined with decreasing death rates:
   a) high stationary;  
   b) early expanding;  
   c) low stationary;  
   d) late expanding;  
   e) none of the above.

3. Artifacts:
   a) include religion;  
   b) includes social interactions such as family structures;  
   c) are ignored because they indicate little about culture and society;  
   d) are the visible aspects of culture.  
   e) none of the above.

4. Volcanic activity in Hawaii is the result of a:
   a) mid-oceanic ridge;  
   b) plate boundary;  
   c) hot spot;  
   d) core/mantle effect;  
   e) none of the above.

5. Religion is:
   a) defined by a system of beliefs;  
   b) is of primary importance in many Islamic countries;  
   c) varies in importance among different cultures;  
   d) is of subordinate importance in the technological world;  
   e) all of the above.

6. The process of converting from a spherical coordinate system to a flat coordinate system is referred to as:
   a) areal distortion;  
   b) map projection;  
   c) areal exaggeration;  
   d) dimensional applicability;  
   e) polar flattening.

7. The important geographical direction line that passes through the Greenwich Observatory near London is:
   a) the prime meridian;  
   b) 180 degrees north latitude;  
   c) the equator;  
   d) the international date line.  
   e) none of the above.

8. Lines of latitude:
   a) begin with the prime meridian;  
   b) are designated by being East or West from an origin;  
   c) are of equal length;  
   d) become shorter from the equator to the polar areas;  
   e) none of the above.

9. It is 1:00 PM on Friday at 90 degrees W. What time is it at 150 degrees W?
   a) 5:00 PM Friday;  
   b) 9:00 AM Friday;  
   c) 9:00 AM Saturday;  
   d) 5:00 AM Saturday;  
   e) 1:00 PM Saturday.

10. The Hadley-Ferrel model describes:
    a) the formation of thunderstorms;  
    b) the general redistribution of heat from the equator to the polar areas;  
    c) the formation of thunderstorms, particularly those associated with hail;  
    d) tornado activity;  
    e) none of the above.

11. B climates are characterized by:
    a) little precipitation;  
    b) maritime locations;  
    c) equatorial locations;  
    d) much precipitation;  
    e) none of the above.
12. Omaha is a textbook example of which Koeppen climate classification category:
   a) A;
   b) B;
   c) C;
   d) D;
   e) E.

13. As of 2000 the natural increase of the world was 1.6 and a population of 6.067 billion. What is the expected population in 2025?
   a) 14.2 billion;
   b) 12.2 billion;
   c) 8.6 billion;
   d) 200.9 billion;
   e) 9.05 billion.

14. Muslims account for what percentage of the world's population:
   a) 14%;
   b) 5.5%;
   c) 23%;
   d) 30%;
   e) 20%.

15. Which country in the western hemisphere has the second greatest oil endowment after the United States?
   a) Canada;
   b) Mexico;
   c) Venezuela;
   d) Brazil;
   e) Cuba.

16. All of the following are true statements about longitude, except:
   a) has its origin at the prime meridian;
   b) could be determined by sailors using a device called a sextant;
   c) are relatively equal in length;
   d) extend east and west to 180 degrees longitude;
   e) could not be determined by sailors until the introduction of the chronometer.

17. The theory of Plate Tectonics was not widely accepted until the 1970s. Today, it is believed that tectonic forces have caused the development of:
   a) mountains;
   b) metamorphic rocks;
   c) volcanoes;
   d) hydro-thermal fields;
   e) all of the above.

18. Which is the most spoken primary language?
   a) English;
   b) Chinese;
   c) Hindi;
   d) Spanish;
   e) none of the above.

19. All of the following are characteristics of LDC countries, except:
   a) marginal physical environments;
   b) subsistence farming;
   c) large percent of population is under the age of 15;
   d) high energy production and consumption;
   e) illiteracy is high.

20. Of the top 20 oil producing countries, which two have the highest remaining oil reserves?
   a) Saudi Arabia and Russia;
   b) Saudi Arabia and the United States;
   c) Russia and Venezuela;
   d) Iraq and Iran;
   e) United States and Russia.

21. Rain occurs because of:
   A. the formation of clouds;
   B. evaportranspiration;
   C. the coriolis effect;
   D. the equalization of the earth's temperature;
   E. none of the above.

22. It is 12 noon, Monday at 90° west longitude. What time and day should it be at 75° east longitude?
   A. 1 AM; Monday;
   B. 11 AM; Tuesday;
   C. 11 PM; Monday;
   D. 11 PM; Tuesday;
   E. 6 AM; Monday.

23. The measurement of the earth's circumference:
A. was not undertaken until the 1400's;  
B. was accomplished by contemporaries of Columbus;  
C. required knowing the distance to the middle of the earth;  
D. was done by the Greek Eratosthenes around 250 B.C.;  
E. was found to be about 40,000 miles.

A. Tropical;  
B. Desert;  
C. Maritime;  
D. Continental;  
E. Cold.

25. It is believed that tectonic forces have caused the development of:  
A. mountains;  
B. metamorphic rocks;  
C. volcanoes;  
D. hydro-thermal activity;  
E. all of the above.

26. Out of 100 people in the world, how many would be from China, India, and the United States?  
A. 19, 14, 3.1  
B. 16, 12, 4.5  
C. 24, 15, 4.5  
D. 21, 12, 4.2  
E. 21, 17, 4.5

27. Which of the following languages is not in the romance group of languages?  
A. French;  
B. Spanish;  
C. Welsh;  
D. Italian;  
E. Portuguese.

28. The percent of people, following one of the Christian religions in the world is about:  
A. 15%;  
B. 23%;  
C. 30%;  
D. 45%;  
E. 55%

29. HDC countries have:  
A. extensive trade contacts;  
B. dense transportation networks;  
C. high energy production;  
D. advanced medical facilities;  
E. all of the above.

30. Which of the following countries has the highest rate of infant mortality?  
A. Canada;  
B. United States;  
C. Japan;  
D. Denmark;  
E. Sweden.

31. Location on the earth can be determined with the spherical coordinate system of latitude and longitude. Locations are measured in degrees away from an origin in north, south, east, and west directions. 23.34° S and 46.38° W is located in:  
A. Russia;  
B. Canada;  
C. South Africa;  
D. South America;  
E. none of the above.

32. The point at 38° south latitude and 145° east longitude is located in:  
A. Alaska;  
B. Nebraska;  
C. Hawaii;  
D. California;  
E. Australia.

33. Mental maps are all of the following, except:  
A. a form of mental image;  
B. difficult to draw accurately by most people;  
C. can be the layout of a building or a map of the world;  
D. are only derived through direct experience with the environment;  
E. none of the above.
34. Lines of latitude:
   A. begin with the prime meridian;
   B. are designated by being East or West from an origin;
   C. are of equal length;
   D. become shorter from the equator to the polar areas;
   E. none of the above.

35. Maritime climates are characterized by:
   A. large temperature ranges;
   B. little precipitation;
   C. relatively small temperature ranges;
   D. cold temperatures;
   E. none of the above.

36. 'D' climates are characterized by:
   A. little precipitation;
   B. cold winters and mild to hot summers;
   C. tundra conditions;
   D. much precipitation;
   E. none of the above.

37. 'C' climates are:
   A. continental in location;
   B. have very hot summers;
   C. are located at high elevations;
   D. are characterized by cold winters and hot summers;
   E. none of the above.

38. Continental climates are characterized by:
   A. small seasonal variation in temperature;
   B. high humidities throughout the year;
   C. uniform precipitation throughout the year;
   D. mild winters and cool summers;
   E. great ranges in temperature between winter and summer.

39. Rome, Italy, is a textbook example of which Koeppen climate classification category:
   A. A;
   B. B;
   C. C;
   D. D;
   E. E.

40. The five largest countries in the world account for nearly half the world's population, but only 21% of the world's land surface. These countries include:
   A) China, India, United States, Russia, and Brazil.
   B) Pakistan, Bangladesh, Japan, Nigeria, and Brazil.
   C) Brazil, China, India, the United States, and Indonesia.
   D) Bangladesh, Pakistan, Nigeria, France, and Egypt.
   E) none of the above.

41. To maintain zero population growth (zpg) throughout the world, the number of children per couple would have to be about 1.3. This is because:
   A. fewer couples are deciding to have children;
   B. improved medical care is drastically decreasing infant mortality;
   C. more women over 35 are having children;
   D. a large percentage of the world's population is under 15;
   E. none of the above.

42. A country has a population of 20 million and a natural increase of 2.1%. What will be its population after 20 years?
   A. 27.23;
   B. 30.44;
   C. 25.23;
   D. 35.84;
   E. 42.56.

43. Countries of the world can be divided into three categories. These include the Highly Developed Countries (HDC's), Moderately Developed Countries (MDC's) and Less Developed Countries (LDC's). Some believe that LDC countries will never achieve the wealth of HDC countries. They argue that the primary goal of HDC countries is to:
   A. increase the wealth of MDC countries;
   B. increase the wealth of LDC countries;
   C. maintain the status quo; politically, economically and socially;
   D. reject trickle-down economics;
   E. all of the above.
44. Which country has the greatest proved oil reserves?
   A. Russia;  
   B. Iraq;  
   C. United States;  
   D. Kuwait;  
   E. Saudia Arabia.  
   
45. Which country has had the greatest cumulative production of oil over time, having only 92 billion barrels left (an optimistic estimate) from an original endowment of 260 billion barrels?
   A. United States;  
   B. Saudi Arabia;  
   C. Russia;  
   D. Iran;  
   E. Iraq.  

46. Mali has a birth rate of 50 and a death rate of 20 per 1000. It would best fit into what category of the demographic transition?
   A. high stationary;  
   B. early expanding;  
   C. late expanding;  
   D. low stationary;  
   E. none of the above.  

47. Which one of the following is not one of the world's four largest population concentrations?
   A. South Asia;  
   B. Europe;  
   C. Eastern Africa;  
   D. Eastern North America;  
   E. East Asia.  

48. The United States consumes at least what percentage of the world's energy?  
   a) 70%  
   b) 25%  
   c) 30%  
   d) 15%  
   e) 5%  

49. In 1999 which country was the world's second largest consumer of oil?  
   a) Japan  
   b) United States  
   c) China  
   d) Germany  
   e) Canada  

50. The goal of HDC countries is to:
   a) maintain the status quo, sometimes through military intervention;  
   b) contribute unselfishly to the development of MDC and LDC countries;  
   c) spread affordable health care to the developing world;  
   d) create a strong military in other countries;  
   e) none of the above.