1. What determines how the height of the sun in the sky at noontime changes through the year?
   - the tilt of Earth's axis relative to the direction of the noontime sun
   - the tidal cycle which in turn depends on the position of our Moon
   - Earth's distance from the sun—closest in summer, furthest in winter
   - trick question—the height of the sun at noontime does not change during the year

2. If you lived in the Southern Hemisphere, during which months would Autumn occur?
   - December—February
   - June—August
   - March—May
   - September—November

3. Gradual temperature changes through the seasons are caused by the distance…
   - from the earth to the sun
   - from your location to where the central sun ray hits Earth at noon
   - from your location to the equator
   - none of the above—temperature changes are determined by God

4. During the month of May in the Northern Hemisphere…
   - the number of daylight hours slowly decreases each day
   - the sun is lower in the sky each day at noon
   - the sun rises and sets farther northward each day
   - the earth gets closer to the sun each day

5. Which of the following always occurs when the sun is directly above Earth's equator?
   - an equinox
   - an eclipse
   - a new moon
   - it's noon time

6. In the Northern Hemisphere, the longest number of hours between sunrise an sunset occur…
   - on the winter solstice
   - on the vernal equinox
   - on the summer solstice
   - on the autumnal equinox

7. Ptolemy thought that the sun revolves around the earth which is fixed in space. Was he…
   - right—the earth is fixed in space and the sun, moon, and stars revolve around it
   - partially right—the sun revolves about the earth but only once every year
   - partially wrong—the sun doesn't revolve on Feb 29 in leap years
   - wrong—the planets revolve around the earth but the sun does not

8. Absent geographical influences (ocean currents, etc,) it would be warmest at the equator…
   - on the winter solstice
   - equally on the vernal and autumnal equinoxes
   - on the summer solstice
   - only on the autumnal equinox

9. The apparent motion of the sun across the sky each day is due to…
   - predominantly the actually motion of the sun around the solar system
   - predominantly the spin of the earth on its axis
   - solely the spin of the earth on its axis
   - solely the actually motion of the sun around the solar system

10. At noon on the Northern Hemisphere Winter Solstice, the sun is directly overhead on…
    - Greenwich—longitude 0
    - some place on the Arctic circle
    - some place on the Tropic of Capricorn
    - the South Pole