

Name: _____

Motions of the Sun – Posttest

Answer the following questions.

Question 1: The sun rises highest (its maximum altitude during the day is greatest) in our sky (assume a mid United States latitude) on ...

- a) March 21
- b) June 21
- c) September 21
- d) December 21

Question 2: At which of the following latitudes can an observer see the sun at their zenith on May 20?

- a) 20° N
- b) 10° N
- c) 0°
- d) 10° S
- e) 20° S

Question 3: On the autumnal equinox the sun rises directly east. Where will the sun set two weeks later?

- a) north of west
- b) south of west

Question 4: On which of the following dates will an observer at 75° S see the sun above the horizon all day long?

- a) June 21
- b) December 21
- c) The sun will rise and set everyday of the year at this latitude.

Question 5: From Saskatoon, Canada (lat = 52°N), the meridinal altitude of the star Sirius (dec=-16°) is: _____

Question 6: From Juneau, Alaska, (lat=58°N), the meridinal altitude of the sun on the summer solstice is: _____

Question 7: The horizon diagram below shows the path of the sun on the _____ from a latitude of 75°N.

- a) summer solstice
- b) autumnal equinox
- c) winter solstice



Question 8: The horizon diagram below shows the path of the sun on the summer solstice from a latitude of _____.

- a) 0°
- b) 30° N
- c) 60° N
- d) 90° N

