

## Sun Quiz

- \_\_\_\_\_1. During the course of a year the sun will disappear from view near the North Pole on what date?
- a. June 21
  - b. September 23
  - c. December 23
  - d. January 1
  - e. March 21
- \_\_\_\_\_2. During the winter solstice in the Northern Hemisphere:
- a. astronomical winter begins in the Northern Hemisphere
  - b. the noon sun is overhead at  $23.5^{\circ}$  S latitude
  - c. at middle latitudes in the Northern Hemisphere, this marks the longest night of the year
  - d. all of the above

\_\_\_\_3. The sun is directly overhead at Bangkok Thailand (latitude  $14^{\circ}\text{N}$ ):

- a. once a year
- b. twice a year
- c. four times a year
- d. never

\_\_\_\_4. On what day would you expect the sun to be overhead at Bangkok Thailand (latitude  $14^{\circ}\text{N}$ ):?

- a. September 15
- b. December 22
- c. February 4
- d. March 10
- e. April 27

- \_\_\_\_ 5. Our seasons are caused by:
- a. the changing distance between the earth and the sun
  - b. the angle at which sunlight reaches the earth
  - c. the length of the daylight hours
  - d. all of the above
  - e. only (b) and (c) are correct
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- \_\_\_\_ 6. The earth is tilted at an angle of  $23.5^\circ$  with respect to the plane of its orbit around the sun. If the amount of tilt were increased to  $40^\circ$ , we would expect in middle latitudes:
- a. hotter summers and colder winters than at present
  - b. cooler summers and milder winters than at present
  - c. hotter summers and milder winters than at present
  - d. cooler summers and colder winters than at present
  - e. no appreciable change from present conditions



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Answer Section

MULTIPLE CHOICE

1. B

2. D

3. B

4. E

5. E

6. A