

11. To precisely locate points on the earth' surface, degrees longitude and latitude have been divided into \_\_\_\_\_and \_\_\_\_\_.

- a. Hour and seconds
- b. Hour and minute
- c. Minute and second
- d. All the above

12. The \_\_\_\_\_ is a line around the earth and at equal distance from both poles.

- a. Equator
- b. Tropic of Cancer
- c. Tropic of Capricorn
- d. Meridian

13. A line connecting all the points with the same latitude value is called a \_\_\_\_\_.

- a. Pole
- b. Equator
- c. line of latitude
- d. None of these

14. Lines of longitude, called meridians, run perpendicular to lines of \_\_\_\_\_ and all pass through both poles.

- a. Latitude
- b. Longitude
- c. Equator
- d. None of these

15. The Earth is divided equally into \_\_\_\_\_ degrees of longitude.

- a. 90
- b. 180
- c. 270
- d. 360

16. There are 180 degrees of longitude to the east of the Prime Meridian; when the directional designator is omitted these longitudes are given \_\_\_\_\_ values.

- a. Negative
- b. Positive
- c. Zero
- d. All of these

17. There are also 180 degrees of longitude to the west of the Prime Meridian; when the directional designator is omitted these longitudes are given \_\_\_\_\_ values.

- a. Negative
- b. Positive
- c. Zero
- d. All of these

18. The equator, located at  $0^\circ$ , is the longest line of latitude on Earth and is approximately \_\_\_\_\_ Kilometer.

- a. 37,000
- b. 40,000
- c. 45000
- d. 50,000

19. At  $23.5^\circ\text{N}$  is the Tropic of \_\_\_\_\_.

- a. Capricorn
- b. Cancer
- c. Equator
- d. Meridian

20. The Tropic of Capricorn is at  $23.5^\circ\text{S}$  and it runs through \_\_\_\_\_ .

- a. India
- b. Australia
- c. China
- d. Mexico

21. \_\_\_\_\_ help navigation and researchers understand the various patterns seen on Earth and seasonal differences

- a. Latitude
- b. Longitude
- c. Meridian
- d. Parallel

22. Convert 121.135 degrees into sexagesimal system (degrees, minutes, and seconds)

- a.  $121^\circ 13' 5''$
- b.  $121^\circ 25' 24''$
- c.  $121^\circ 8' 6''$
- d. Not possible to convert

23. The line which divided the earth into Northern Hemisphere and Southern Hemisphere is called:

- a. Tropic of Cancer
- b. Prime meridian
- c. Equator
- d. Tropic of Capricorn

24. The equator is the only line on the Earth's surface that is considered a \_\_\_\_\_.

- a. great circle
- b. half circle
- c. Prime meridian
- d. None of these

25. The Tropic of Cancer is a line of latitude circling the Earth at approximately 23.5° \_\_\_\_\_ of the equator.

- a. East
- b. West
- c. North
- d. South

26. The Tropic of Capricorn is an imaginary line of latitude going around the Earth at approximately 23.5° \_\_\_\_\_ of the equator.

- a. East
- b. West
- c. North
- d. South

## Answer

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11. d
- 12. a
- 13. c
- 14. a
- 15. d
- 16. b
- 17. a
- 18. b
- 19. b
- 20. b
- 21. a

22. c (Solution: · The whole units of degrees will remain the same (i.e. in  $121.135^\circ$  longitude, start with  $121^\circ$ ).
- Multiply the decimal by 60 (i.e.  $.135 * 60 = 8.1$ ).
  - The whole number becomes the minutes (8').
  - Take the remaining decimal and multiply by 60. (i.e.  $.1 * 60 = 6$ ).
  - The resulting number becomes the seconds (6'). Seconds can remain as a decimal.
  - Take your three sets of numbers and put them together, using the symbols for degrees ( $^\circ$ ), minutes ('), and seconds (') (i.e.  $121^\circ 8' 6'$  longitude)
23. c
24. a
25. c
26. d

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