

## Sun Quiz

1. The Sun is a...?

- a) Star
- b) Planet
- c) Galaxy

2. What is the average distance between Sun and Earth?

- a) 1.5 million km
- b) 15 million km
- c) 150 million km

3. What is the approximate diameter of the Sun?

- a) 1.4 million km
- b) 12,000 km
- c) 150 million km

4. The Sun gets its energy from..?

- a) Nuclear Reactions
- b) Galactic Wind
- c) Coal and Fossil Fuels

5. The nuclear fusion reactions at the Sun's core converts..?

- a) Helium to Hydrogen
- b) Hydrogen to Helium
- c) Helium to Helium

6. What is thought to cause sunspots?

- a) Magnetic Fields
- b) Satellites
- c) Chocolate

7. How long is a sunspot cycle?

- a) 28 days
- b) 365 days
- c) 11 years

8. The outside part of a sunspot is called the..?

- a) Umbra
- b) Penumbra

9. If a sunspot takes 12.5 days to cross the surface how long can we assume the rotation period of the Sun is?

- a) 12.5 days
- b) 25 days
- c) 28 days

10. True or False? The Sun's sphere does not rotate at the same period.

- a) True
- b) False

11. The Sun's cycle can be best interpreted using a..?

- a) Bar chart
- b) Pie graph
- c) Butterfly diagram

12. The temperature of the Sun's corona is approximately..?

- a) 2 hundred degrees
- b) 2 thousand degrees
- c) 2 million degrees

13. The chromosphere can be briefly observed seen at the start and end of a solar eclipse and looks like a..?

- a) Thin pink band
- b) Thin orange band
- c) Thin blue band

14. Light and heat move through these regions of the Sun...

- a) Core
- b) Radiative and Convective zone
- c) Photosphere

15. Why do the Moon and Sun appear to be the same size in the sky?

- a) The Moon is 400 times smaller but 400 times closer than the Sun
- b) The Sun is 400 times smaller but 400 times closer than the Moon
- c) The Earth is 400 times smaller but 400 times closer than the Moon

16. Why do we not get a total lunar or solar eclipse every month?

- a) The Moon is too far away
- b) The Moon is 5 degrees inclined to the ecliptic
- c) The Earth is not close enough to the Moon

17. Why do lunar eclipses last longer than solar eclipses?

- a) The Moon travels faster during a solar eclipse
- b) The Earth casts a larger shadow on the Moon than vice versa
- c) The Moon is larger than the Earth

18. Which of these eclipses last the longest?

- a) Total Solar
- b) Annular
- c) Total Lunar

19. The Moon moves in front of the Sun from our position. Using safely equipment, we observe a 'ring' of the Sun around the shadowed Moon. What is this eclipse called?

- a) Total
- b) Annular
- c) Lunar

20. During a total solar eclipse, the inner part of the Moon's shadow is called the..?

- a) Umbra
- b) Penumbra

21. Aurorae are best seen..?

- a) Toward the Poles
- b) Toward the Equator
- c) Between the Tropics and Equator

22. Aurorae are caused by..?

- a) Solar Wind rotating around Earth
- b) Trapped solar particles in the Van Allen belts near the poles
- c) Dust in the atmosphere

## Answers

1. (a)

2. (c)

3. (a)

4. (a)

5. (b)

6. (a)

7. (c)

8. (b)

9. (b)

10. (a)

11. (c)

12. (c)

13. (a)

14. (a) (b)

15. (a)

16. (b)

17. (b)

18. (c)

19. (b)

20. (a)

21. (a)

22. (b)