

**SAASTA ASTRO™ QUIZ 2018
ROUND 1**

School Name: _____



SAASTA
South African Agency for Science
and Technology Advancement

PLEASE ANSWER YOUR QUESTIONS ON THIS PROVIDED QUESTION PAPER. EACH QUESTION IS FOLLOWED BY ANSWERS MARKED A AND B, OR A, B, C AND D. ONLY ONE ANSWER IS CORRECT. CHOOSE THE MOST CORRECT ANSWER AND CIRCLE IT CLEARLY. THANK YOU & ALL OF THE BEST.

1. The Sun is a huge ball of very hot gas in space, which radiates heat and light in one direction.

- A. True
- B. False

2. Burning is a process that requires oxygen to occur. The Sun is a huge ball of very hot gas because there is continuous burning of gases therein.

- A. True
- B. False

3. During the day, we cannot see any stars at all.

- A. True
- B. False

4. There are active volcanoes on a certain moon that orbits one of the planets in our Solar System. What is the name of this moon?

- A. Calypso
- B. Ganymede
- C. Titan
- D. Io

5. What is the name of the planet around which the moon mentioned above orbits?

- A. Saturn
- B. Uranus

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- C. Jupiter
- D. Neptune

6. Different planets take different amounts of time to make one complete rotation on their axis and so they have different lengths of days. Arranged from longest to shortest time, which of the following is correct?

- A. Venus, Mercury, Mars, Earth
- B. Mercury, Venus, Mars, Earth
- C. Mercury, Mars, Venus, Earth
- D. Venus, Mercury, Mars, Earth

7. Different planets take different amounts of time to make one complete revolution around the Sun. Arranged from shortest to longest time, which of the following is correct?

- A. Earth, Uranus, Mars, Neptune
- B. Neptune, Uranus, Mars, Earth
- C. Earth, Mars, Uranus, Neptune
- D. Uranus, Earth, Mars, Neptune

8. The period that the Earth takes to revolve once around the Sun is approximately a _____

- A. day
- B. year
- C. week
- D. month

9. Daytime is longer in the summer because the Earth spins more slowly in the summer months.

- A. True
- B. False

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10. The period that the Earth takes to make one full rotation on its axis is approximately a _____
- A. day
 - B. year
 - C. week
 - D. month
11. Which planet has its year shorter than its day?
- A. Pluto
 - B. Mercury
 - C. Earth
 - D. Venus
12. Which planet in our Solar System spins the fastest?
- A. Saturn
 - B. Earth
 - C. Jupiter
 - D. Mercury
13. The area that separates the inner planets from the outer ones is referred to as the _____
- A. Kuiper belt
 - B. Oort belt
 - C. Asteroid belt
 - D. Terrestrial belt
14. Approximately by what angle is the Earth's rotation axis tilted to the plane of its orbit around the Sun?
- A. 25.3 degrees
 - B. 33.5 degrees
 - C. 23.5 degrees
 - D. 35.3 degrees

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- 15. Which one of the following does not belong to the group below?**
- A. Uranus
 - B. Saturn
 - C. Neptune
 - D. Mars
- 16. The two main gases found in the Sun are:**
- A. Oxygen & Nitrogen
 - B. Hydrogen & Oxygen
 - C. Hydrogen & Helium
 - D. Hydrogen & Lithium
- 17. Stars have the same temperatures, sizes and brightness.**
- A. True
 - B. False
- 18. Which of the following is the biggest of the terrestrial planets?**
- A. Jupiter
 - B. Mercury
 - C. Mars
 - D. Earth
- 19. Which of the following planets in our Solar System has the most number of natural satellites?**
- A. Earth
 - B. Saturn
 - C. Uranus
 - D. Jupiter
- 20. Which of the following are the two main gases found on Earth?**
- A. Oxygen & Carbon Dioxide
 - B. Hydrogen & Helium
 - C. Hydrogen & Lithium
 - D. Oxygen & Nitrogen

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21. At which Observatory did an astronomer discover the closest star to the Earth after the Sun?

- A. National Aeronautics and Space Administration (NASA)
- B. South African Astronomical Observatory;
- C. Johannesburg Observatory
- D. Boyden Observatory

22. What is the name of this star mentioned in Question 21 above?

- A. Sirius
- B. Proxima Centauri
- C. Alpha Centauri
- D. Centauri

23. In which year was this star mentioned in Question 21 above discovered?

- A. 2015
- B. 1915
- C. 1519
- D. 1520

24. Different planets have different numbers of natural satellites. How many does planet Earth have?

- A. 2
- B. 64
- C. 1
- D. 61

25. As the Earth orbits the Sun, the North Pole sometimes points in different directions.

- A. True
- B. False

26. Earth's orbit around the Sun takes more time than its rotation along its axis.

- A. True
- B. False

27. The Earth rotates along its axis from _____

- A. West to East
- B. East to West

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C. West to North

D. East to North

28. Which of the following facts about the Earth is incorrect?

A. The direction and angle of the Earth's tilt do not change

B. Its seasons occur as a result of its angle of tilt

C. For six months of the year the southern hemisphere is tilted towards the Sun

D. It is the fifth largest planet of the outer planets.

29. Which of the following is the hottest planet in our Solar System?

A. Venus

B. Mercury

C. Mars

D. Jupiter

30. The reason why this planet is the hottest is _____

A. It is the closest to the Sun

B. It looks like a beautiful gem in the sky

C. Its atmosphere is made up almost entirely of carbon dioxide, which traps the heat

D. Its atmosphere is made up almost entirely of hydrogen which continually burns and produces heat

THANK YOU FOR PARTICIPATING!

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ASTRO QUIZ ROUND 1 TIE BREAKERS

1. The fifth largest planet in our solar system is _____
 - A. Venus
 - B. Neptune
 - C. Earth
 - D. Mars

2. The rings of Saturn are mainly made of _____
 - A. Rocks only
 - B. Water ice, rocks and dust
 - C. Frozen nitrogen and oxygen
 - D. Hydrogen and helium

3. The planet in our solar system, that is tilted by approximately 90 degrees is _____
 - A. Venus
 - B. Neptune
 - C. Uranus
 - D. Mars

4. The imaginary line that divides the world into southern and northern hemispheres is the _____
 - A. Prime Meridian
 - B. Tropic of Capricorn
 - C. Equator
 - D. Tropic of Cancer

5. The imaginary line that divides the world into eastern and western hemispheres is the _____
 - A. Prime Meridian
 - B. Tropic of Capricorn
 - C. Equator
 - D. Tropic of Cancer

THANK YOU AGAIN FOR YOUR PARTICIPATION 😊