

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 the largest and brightest object in the universe.**
 - A. True
 - B. False

- 2. The period that the Earth takes to revolve once around the Sun is approximately a _____**
 - A. day
 - B. year
 - C. week
 - D. month

- 3. Which of the following objects is the smallest in size?**
 - A. Pluto
 - B. Mercury
 - C. Earth
 - D. Venus

- 4. Which planet in our Solar System spins the fastest?**
 - A. Saturn
 - B. Earth
 - C. Mercury
 - D. Jupiter

- 5. On which of the following objects does a day last for less than 10 Earth hours?**
 - A. Mars
 - B. Saturn
 - C. Jupiter
 - D. Neptune

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6. The area that separates inner planets from the outer ones is referred to as the _____
- A. Kuiper belt
 - B. Oort belt
 - C. Asteroid belt
 - D. Terrestrial belt
7. 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
8. The direction and angle of the tilt of the Earth _____
- A. Always change in accordance to the season
 - B. Do not change
 - C. Change in accordance to the weather
 - D. Change as the day & night come
9. Which one of the following does not belong to the group below?
- A. Earth
 - B. Mars
 - C. Venus
 - D. Jupiter
10. Which spacecraft, launched in 2006 flew by Pluto in July 2015?
- A. Spirit
 - B. New Horizons
 - C. Space shuttle
 - D. Opportunity
11. The two main gases found in the Sun are:
- A. Oxygen & Nitrogen
 - B. Hydrogen & Oxygen
 - C. Hydrogen & Helium
 - D. Hydrogen & Lithium

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12. Stars have different temperatures, sizes and brightness.

- A. True
- B. False

13. Which one of the following statements is true?

- A. Blue stars are hotter than white stars
- B. White stars are hotter than blue stars.

14. Which of the following planets in our Solar System has the least number of natural satellites?

- A. Earth
- B. Saturn
- C. Uranus
- D. Jupiter

15. What do the units “light year” & “light minutes” measure?

- A. Volume & Distance respectively
- B. Distance
- C. Mass & distance respectively
- D. Distance & Volume respectively

16. Which two main gases can be found on Earth?

- A. Oxygen & Carbon Dioxide
- B. Hydrogen & Helium
- C. Hydrogen & Lithium
- D. Oxygen & Nitrogen

17. From which Observatory did astronomers 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

18. How many natural satellites does planet Earth have?

- A. 2
- B. 64
- C. 31
- D. 1

19. The scientific name for a shooting star is _____

- A. Meteor
- B. Meteoroid
- C. Comet
- D. Satellite

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- 20. If the planets Venus, Earth and Mars are arranged according to decreasing day lengths, the sequence will be _____**
- A. Venus, Earth, Mars
 - B. Mars, Venus, Earth.
 - C. Venus, Mars, Earth
 - D. Earth, Mars, Venus.
- 21. When the Earth orbits the Sun, the North Pole always points in the same direction.**
- A. True
 - B. False
- 22. When it rotates along its axis, the Earth rotates from _____**
- A. East to West
 - B. West to East
 - C. West to North
 - D. East to North
- 23. Earth's orbit around the Sun takes less time than its rotation on its axis.**
- A. True
 - B. False
- 24. Earth's seasons are a result of the**
(1) Earth's spin; (2) tilt of the Earth's axis and/or (3) Earth orbiting the Sun. Which of the following is the correct answer?
- A. (1)
 - B. (1) & (3)
 - C. (2) & (3)
 - D. (1), (2) & (3)
- 25. Which factor(s) determine the length of a day on a planet? The planet's (i) size (ii) spin or (iii) period of orbiting the Sun?**
- A. (i) & (ii)
 - B. (ii) & (iii)
 - C. (i) & (iii)
 - D. (i), (ii) & (iii)

**SAASTA ASTRO™ QUIZ 2017
ROUND 1**

School Name: _____

26. Which planet rotates in the opposite direction to the other three?

- A. Mercury
- B. Neptune
- C. Saturn
- D. Venus

27. The Hess and SALT telescopes are found in _____ respectively.

- A. South Africa & Namibia
- B. Namibia & South Africa
- C. Germany & South Africa
- D. South Africa & Germany

28. The rings of Saturn are mainly made of ...

- A. Rocks only
- B. Water ice
- C. Frozen nitrogen and oxygen
- D. hydrogen and helium

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

- A. Venus
- B. Mercury
- C. Mars
- D. Jupiter

30. On one of the following planets the surface is extremely hot during the day and icy cold at night. Which one is that?

- A. Earth
- B. Jupiter
- C. Mercury
- D. Uranus

THANK YOU FOR PARTICIPATING!!

ASTRO QUIZ ROUND 1 TIE BREAKERS

1. Arrange the following in terms of increasing distance from Earth.

- A. Makemake, Eris, Ceres, Pluto
- B. Eris, Pluto, Ceres, Makemake
- C. Ceres, Makemake, Eris, Pluto
- D. Ceres, Pluto, Makemake, Eris

2. The orbits of the solar system planets are roughly on the same plane.

- A. True
- B. False

3. The three most abundant gases found in Uranus' atmosphere are _____

- A. Hydrogen, Helium & Nitrogen
- B. Hydrogen, Helium & Methane
- C. Hydrogen, Helium & Ammonia
- D. Hydrogen, Helium & Oxygen

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 😊