

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

ASTRO QUIZ ROUND 1 TIE BREAKERS: ANSWERS

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 😊