

## ASTRO™ QUIZ 2021

**Duration:** 30 minutes

Please answer your questions on this question paper. Each question is followed by possible answers marked A, B, C and D or just A and B. Only one answer is correct. Choose the most correct answer and **circle** it clearly.

1. **What was the name of the first man-made satellite?**
  - A. Explorer I
  - B. HST
  - C. Apollo 1
  - D. Sputnik
2. **The saying "Houston, we have a problem" came from a space mission which almost ended in a catastrophe. This was ...**
  - A. Apollo 12
  - B. Apollo 13
  - C. Apollo 14
  - D. Apollo 15
3. **We always see the same side of the Moon.**
  - A. True
  - B. False
4. **Where do you find the Kuiper belt in the solar system?**
  - A. Between the Sun and Mercury
  - B. Between Mars and Jupiter
  - C. Beyond Neptune
  - D. None of the above
5. **A shooting star and a rock from space reaching Earth's surface are called**
  - A. Meteor and meteoroid
  - B. Meteor and meteorite
  - C. Meteorite and meteoroid
  - D. Meteoroid and meteorite
6. **Which of the following planets has no moons?**
  - A. Mars
  - B. Jupiter
  - C. Neptune
  - D. Mercury
7. **Which is the nearest star to Earth?**
  - A. Betelgeuze
  - B. Proxima Centauri
  - C. The Sun
  - D. Alpha Centauri
8. **Which planet in our Solar System spins fastest?**
  - A. Saturn
  - B. Earth
  - C. Mercury
  - D. Jupiter
9. **The only place with water in the solar system is the Earth.**
  - A. True
  - B. False
10. **What does the unit "light year" measure?**
  - A. Volume
  - B. Distance
  - C. Mass
  - D. Brightness
11. **The period that the Earth takes to revolve once around the Sun is approximately a .....**
  - A. year
  - B. month
  - C. week
  - D. day
12. **What is a supernova?**
  - A. A massive solar flare
  - B. A collision of two planets
  - C. A collision of two neutron stars
  - D. An exploding star
13. **What is or was Laika?**
  - A. The name of the first Russian space mission
  - B. A constellation
  - C. The first ape in space
  - D. None of the above
14. **The planets are almost on a line in the sky. This is because...**
  - A. they all are more or less in the same plane
  - B. they are more or less the same size
  - C. they are more or less randomly located in the sky
  - D. they all have more or less the same speed

15. Which of the following is ordered by length of the orbit, from shortest to longest?
- Mercury, Earth, Neptune, Uranus
  - Uranus, Earth, Mercury, Neptune
  - Mercury, Earth, Uranus, Neptune
  - Earth, Neptune, Uranus, Mercury
16. Which planet has the largest number of moons?
- Neptune
  - Saturn
  - Uranus
  - Jupiter
17. A lunar eclipse takes place during the day.
- True
  - False
18. How many stars can you see without a telescope?
- Only one - our Sun
  - A few dozens
  - A few hundreds
  - A few thousand
19. Where is MeerKAT located?
- Near Carnarvon
  - Near Cape Town
  - Near Upington
  - Near Sutherland
20. As what will our Sun end its life?
- A red giant
  - A white dwarf
  - A black hole
  - It will always stay the same
21. What does MeerKAT observe?
- Infrared waves
  - Radio waves
  - Optical light
  - Gamma-ray radiation
22. The word "planet" originates from the Greek word  $\pi\lambda\alpha\nu\eta\tau\alpha\iota$  or  $\text{plan\eta\tau\epsilon\varsigma}$ . What does this word mean?
- Plant
  - Wanderer
  - Ball
  - Silver
23. Which is the most massive?
- A stellar black hole
  - The sun
  - All the planets combined
  - A neutron star
24. "In 1609 I built a telescope. I discovered Jupiter's 4 largest moons. I found that Venus shows phases just like Earth's moon. I also observed craters on the moon and spots on the sun. My work angered the Catholic Church and they put me under house arrest. Who am I?"
- Isaac Newton
  - Stephen Hawking
  - William Herschel
  - Galileo Galilei
25. Over the past few decades multiple rovers have been sent to Mars. Which one of these is not a Mars rover?
- Discovery
  - Spirit
  - Curiosity
  - Opportunity
26. Which is the hottest planet in the solar system?
- Mercury
  - Mars
  - Venus
  - Earth
27. Red stars are hotter than blue stars.
- True
  - False
28. How many constellations are there?
- 12
  - 21
  - 88
  - 365
29. What was founded in 1820?
- The observatory in Port Elizabeth
  - The observatory in Johannesburg
  - The observatory in Bloemfontein
  - The observatory in Cape Town
30. The red spot on Jupiter is a giant...
- Volcano
  - Storm
  - Crater
  - Lake

*Thank you for participating.*