

Answers

11 What did the 'A' stand for in C. A. Parsons?

- a) Algernon c) Andrew
b) Albert d) Alice

12 Which year comes next in the sequence
1639, 1761, 1769, 1874 ... ?

- a) 1881 c) 1883
b) 1882 d) 1884

13 Who was first to identify Saturn's rings correctly?

- a) Galileo c) Huygens
b) Cassini d) Maxwell

14 Which is the odd one out?

- a) M1 c) M5
b) M4 d) M11

15 Who comes next in the series Flamsteed,
Halley, Bradley ... ?

- a) Maskelyne c) Christie
b) Pond d) Airy

16 Picture Question. Look at Picture 1
What is Object A?

- a) Alpha Orionis c) HD 39801
b) Betelgeuse d) 58 Orionis

17 What is the correct present spelling of the name
of the former home of the Royal Greenwich
Observatory?

- a) Herstmanceux c) Herstmonceaux
b) Hurstmonceaux d) None of the above

18 What is the distance to Earth's nearest star?

- a) 1.29 parsecs c) 4.22 light years
b) 149.6 million kms d) 2.64 parsecs

19 What is 'Syzygy' ?

- a) Painful c) Easy for **you** to say!
b) The position of the Moon when full or new d) The position of the Moon when at half phase

20 What is the temperature of the Cosmic
Microwave Background radiation?

- a) -273.15°C c) -270.4°C
b) 2.7°C d) 212°F

a) Algernon

b) 1882 - they're all Transits of Venus

which occur in pairs 8 years apart, separated by over 100 years

c) Christiaan Huygens in *Systema Saturnium* 1659

Galileo thought it was a triple planet. Cassini followed Huygens and identified the gap 'Cassini Division'. Maxwell proved the rings must be composed of small particles

b) The M4 Motorway - which runs roughly east-west

All the others run roughly north-south

d) Airy: They established the 4 meridians at Greenwich

Flamsteed in 1683/89, Halley in 1725, Bradley in 1750, and Airy in 1851. Airy's meridian was recognised as the Prime Meridian of the World in 1884.

They all are. It is Betelgeuse 'The armpit (or hand?)

of the central one': *Ibt al-Jauza* or *Yad al-Jauza*; Alpha Orionis in Bayer, 58 Orionis in Flamsteed; and 39801 in Henry Draper

d) None of the above - it's spelled Herstmonceux

b) 149.6 million kms. Earth's nearest star is the Sun

- a) and c) are Proxima Centauri (nearest to the Sun)
d) is Sirius (= 8.6 light years) - brightest

b) Actually any alignment of the Sun, Earth, and other heavenly body in a straight line. In psychology, Carl Jung used the term syzygy to denote an archetypal pairing of contrasexual opposites, which symbolized the communication of the conscious and unconscious minds.

c) -270.4°C (= -273.15°C + 2.7°)

The Cosmic Background Radiation has a temperature of 2.7°K. Absolute zero (0°K) is -273.15°C. 212°F is the Boiling point of water. 2.7°C is just chilly.

Flamsteed Astronomy Society - Christmas Quiz 2004

Answers

- 21 Who is Jean-Luc Picard?**
 a) Manager of Chapter II c) Surveyor of France c. 1765
 b) Inventor of the Bathyscape d) Captain of the Starship *Enterprise*
- 22 Who won the FA Cup in 1979?**
 a) Arsenal c) Accrington Stanley
 b) Everton d) Manchester United
- 23 Who said "Frankly, my dear, I don't give a damn" ?**
 a) Thatcher to Reagan c) Astaire to Rogers
 b) Rhett Butler to Scarlett O'Hara d) Eddie to Mike about Q22
- 24 Who is the odd one out?**
 a) William Herschel c) Nathaniel Bliss
 b) Nevil Maskelyne d) John Pond
- 25 Which was the first planet discovered in recorded history?**
 a) Saturn c) Uranus
 b) Neptune d) Vulcan
- 26 In addition to Flamsteed and Tycho, which astronomer appears in the Painted Hall Greenwich?**
 a) Galileo c) Newton
 b) Halley d) Copernicus
- 27 What's it called when a planet is exactly the other side of the Earth from the Sun?**
 a) Occultation c) Opposition
 b) Conjunction d) Precession
- 28 What is 18 yrs 10 - 11 days (6585.3 - 6585.8 days)?**
 a) A very good age to be c) The Metonic Cycle
 b) The Saros d) The synodic period of Earth & Mars
- 29 Picture Question. Look at Picture 2 What is Object A?**
 a) Deneb c) Vega
 b) Polaris d) Algol
- 30 What type of star is Betelgeuse?**
 a) Red Dwarf c) Red Giant
 b) Blue Giant d) Jolly Green Giant
- d) Captain of the *Enterprise***
 b) was Auguste Picard c) was Jean Picard
 a) beats me!
- a) Arsenal 3:2 v Man U**
 This is just an excuse for Q 23
- b) ... really, but if you said d) you can have a mark too!**
- a) William Herschel**
 He was 'King's Astronomer'. All the others were Astronomers Royal
- c) Uranus by William Herschel in 1781**
 Saturn was known in antiquity. Neptune was discovered in 1846. Vulcan was thought to be a planet closer to the Sun than Mercury, but doesn't exist.
- d) Copernicus - shown 'with his system in his hand'**
 No comment
- c) Opposition**
 a) is when one object appears to pass in front of another
 b) is when two objects appear to be very close together
 d) is the effect caused by the slow rotation (every 26,000 years) of the direction of the Earth's axis
- b) The Saros to predict eclipses (but not at same place)**
 19 x 346.62 days Sun passes through 2 nodes of Moon
 223 x 29.5306 days avg time between new Moons
 The Metonic Cycle of almost exactly 19 years (235 lunar -months) to predict eclipses in the same place. Works 7x
- b) Polaris - indicated by the 'Guards' of the Great Bear or Big Dipper**
- c) A Red Giant type M**
 Red Dwarves are small cool stars eg Wolf 339
 A Blue Giant is a big hot star eg Rigel

