Flamsteed Astronomy Society - Christmas Quiz 2004 Answers

1	What comes next in the se Earth ?	quence Mercury, Venus,	a)	Mars Planets in sequence from the Sun. Followed by
	a) Mars	c) Jupiter		the asteroids, Jupiter, Saturn, Uranus, Neptune, & Pluto
	b) The Moon	d) Saturn		
2	What is the Galaxy C5A?		b)	A Military aircraft a) The Cat's Eye is Caldwell C6
	a) The Cat's Eye Nebula	c) A chocolate bar		d) Barnard's Galaxy is Caldwell C57.
	b) A US military aircraft	d) Barnard's Galaxy		'Caldwell' catalogue devised by Sir Patrick Caldwell Moore in 1996
3	Which is the odd one out?		b)	30p - the price of <i>The Sun</i>
	a) 149,600,000 km b) 30p	c) 93,009,000 milesd) 499 seconds		All the others are the distance of the Sun from the Earth - the AU or Astronomical Unit. d) is 499 light seconds $(1.496 \times 10^{**8} \text{ km} = 1.496 \times 10^{**13} \text{ cm} / 3 \times 10^{**10} \text{ secs} = 0.499 \times 10^{**3} = 499 \text{ secs})$
4	Where is the tomb of Edm	und Halley?	c)	St Margaret's Lee
	a) St John at Hampstead	c) St Margaret's Lee		a) is John Harrison
	b) St Bart's Burstow	d) Westminster Abbey		b) is John Flamsteed d) is Sir Isaac Newton
5	Who discovered Neptune?		c)	Johann Galle at the Berlin Observatory in 1846 with d'Arrest based on LeVerrier's calculations.
	a) Urbain Le Verrier	c) Johann Galle		Challis missed the chance when alerted by Airy from
	b) John Couch Adams	d) George Airy		the calculations of John Couch Adams.
6	Picture Question. Look at What is Object B?	t Picture 1	d)	Saturn All the others are in the picture
	a) Sirius	c) Procyon		
	b) Pollux	d) Saturn		
7	wouldn't believe. Attack ships burning off the shoulder of Orion '' ?		d)	Blade Runner - "Time to die" speech spoken by replicant Roy Batty played by Rutger Hower
	a) The Wizard of Ozb) The Sound of Music	c) The Matrixd) Blade Runner		
8	How can you tell a Newton	-	b)	mostly
	a) By his accent	c) The Mak. is white		-
	b) The Newtonian eyepiece	d) The Newtonian is		
	is usually up the top end	shorter		
9	Where was James Cook to observe the 1769 Transit of Venus?		a)	Tahiti at Point Venus Cook discovered Botany Bay, was killed at Hawaii, and
	a) Tahiti	c) Botany Bay		has never been positively identified as the man on the
	b) Clapham	d) Hawaii		Clapham omnibus
10	9 For what star was the first published accurate measurement of parallax?		d)	61 Cygni by Friedrich Bessel, Koenigsberg, 1838
			1	followed quickly by Thomas Henderson's value for
	a) Gamma Draconis	c) Alpha Centauri	1	Alpha Centauri and Wilhelm Struve's value for Vega.
	b) Vega	d) 61 Cygni		Gamma Draconis was the pioneer target for Hooke and Bradley

Flamsteed Astronomy Society - Christmas Quiz 2004 Answers					
11	What did the 'A' stand for		1	Algernon	
	a) Algernon	c) Andrew			
	b) Albert	d) Alice			
12	Which year comes next in 1639, 1761, 1769, 1874 5	-	b)	1882 - they're all Transits of Venus which occur in pairs 8 years apart, separated by over 100	
	a) 1881	c) 1883		years	
	b) 1882	d) 1884			
13	Who was first to identify		c)	Christiaan Huygens in Systema Saturnium 1659	
	a) Galileo b) Cassini	c) Huygens d) Maxwell		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	
14	Which is the odd one out?		b)	The M4 Motorway - which runs roughly east-west	
	a) M1	c) M5		All the others run roughly north-south	
	b) M4	d) M11			
15	Who comes next in the ser Halley, Bradley ?	ies Flamsteed,	d)	Airy: They established the 4 meridians at Greenwich Flamsteed in 1683/89, Halley in 1725, Bradley in 1750,	
	a) Maskelyne	c) Christie		and Airy in 1851. Airy's meridian was recognised as	
	b) Pond	d) Airy		the Prime Meridian of the World in 1884.	
16	Picture Question. Look at	Picture 1		ey all are. It is Betelgeuse 'The armpit (or hand?)	
	What is Object A?) ID 20001		the central one': <i>Ibt al-Jauza</i> or <i>Yad al-Jauza</i> ;	
	a) Alpha Orionisb) Betelgeuse	c) HD 39801d) 58 Orionis		pha Orionis in Beyer, 58 Orionis in Flamsteed; d 39801 in Henry Draper	
			un		
17	17 What is the correct present spelling of the name of the former home of the Royal Greenwich Observatory?		d)	None of the above - it's spelled Herstmonceux	
	a) Herstmanceux	c) Herstmonceaux			
10	b) Hurstmonceux	d) None of the above			
18	What is the distance to Ea a) 1.29 parsecs	c) 4.22 light years	b)	149.6 million kms. Earth's nearest star is the Suna) and c) are Proxima Centauri (nearest to the Sun)	
	b) 149.6 million kms	d) 2.64 parsecs		d) is Sirius (= 8.6 light years) - brightest	
	,				
19	What is 'Syzygy' ?		b)	Actually any alignment of the Sun, Earth, and other	
	a) Painful	c) Easy for you to say!		heavenly body in a straight line. In psychology, Carl Jung	
	b) The position of the Moon when full or new	d) The position of the Moon when at half phase		used the term syzygy to denote an archetypal pairing of contrasexual opposites, which symbolized the	
20	What is the temperature of	of the Cosmic	c)	communication of the conscious and unconscious minds. -270.4°C (= -273.15°C + 2.7°)	
20	20 What is the temperature of the Cosmic Microwave Background radiation?			The Cosmic Background Radiation has a temperature	
	a) -273.15°C	c) -270.4°C		of 2.7°K. Absolute zero $(0^{\circ}K)$ is -273.15°C.	
	b) 2.7°C	d) 212°F		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?			Captain of the Enterprise
	a) Manager of Chapter IIb) Inventor of the	c) Surveyor of France c. 1765		b) was Auguste Picard c) was Jean Picard a) beats me!
	Bathyscape	d) Captain of the Starship Enterprise		a) beats me!
	Dailyscape	Emerprise		
22	Who won the FA Cup in	1979?	a)	Arsenal 3:2 v Man U
	a) Arsenal	c) Accrington Stanley		This is just an excuse for Q 23
	b) Everton	d) Manchester United		
23	Who said ''Frankly, my dear, I don't give a damn'' ?		b)	really, but if you said d) you can have a mark too!
43	a) Thatcher to Reagan	c) Astaire to Rogers	0)	Teany, but ii you salu u) you can nave a mark too.
	b) Rhett Butler to	d) Eddie to Mike about Q22		
	Scarlett O'Hara			
24	Who is the odd one out?		a)	William Herschel
	a) William Herschel	c) Nathaniel Bliss		He was 'King's Astronomer'. All the others were
	b) Nevil Maskelyne	d) John Pond		Astronomers Royal
25	Which was the first plane	t discovered in	c)	Uranus by William Herschel in 1781
	recorded history?			Saturn was known in antiquity. Neptune was discovered
	a) Saturn	c) Uranus		in 1846. Vulcan was thought to be a planet closer to the
	b) Neptune	d) Vulcan		Sun than Mercury, but doesn't exist.
26	6 In addition to Flamsteed and Tycho, which		a)	Copernicus - shown 'with his system in his hand'
-0		e Painted Hall Greenwich?	<i>u)</i>	No comment
	a) Galileo	c) Newton		
	b) Halley	d) Copernicus		
27			->	
27	What's it called when a pl side of the Earth from the	-	c)	11
27	side of the Earth from the	e Sun?	c)	a) is when one object appears to pass in front of another
27	-	-	c)	
27	side of the Earth from the a) Occultation	e Sun? c) Opposition	c)	a) is when one object appears to pass in front of anotherb) is when two objects appear to be very close together
	side of the Earth from the a) Occultation	 c) Opposition d) Precession vs (6585.3 - 6585.8 days)? 	,	 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 The Saros to predict eclipses (but not at same place)
	 side of the Earth from the a) Occultation b) Conjunction What is 18 yrs 10 - 11 day a) A very good age to be 	 c) Opposition d) Precession 7s (6585.3 - 6585.8 days)? c) The Metonic Cycle 	,	 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 The Saros to predict eclipses (but not at same place) 19 x 346.62 days Sun passes through 2 nodes of Moon
	side of the Earth from thea) Occultationb) ConjunctionWhat is 18 yrs 10 - 11 day	 sun? c) Opposition d) Precession (6585.3 - 6585.8 days)? c) The Metonic Cycle d) The synodic period of 	,	 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 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
	 side of the Earth from the a) Occultation b) Conjunction What is 18 yrs 10 - 11 day a) A very good age to be 	 c) Opposition d) Precession 7s (6585.3 - 6585.8 days)? c) The Metonic Cycle 	,	 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 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)
28	 side of the Earth from the a) Occultation b) Conjunction What is 18 yrs 10 - 11 day a) A very good age to be b) The Saros 	 sun? c) Opposition d) Precession xs (6585.3 - 6585.8 days)? c) The Metonic Cycle d) The synodic period of Earth & Mars 	b)	 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 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
28	 side of the Earth from the a) Occultation b) Conjunction What is 18 yrs 10 - 11 day a) A very good age to be b) The Saros Picture Question. Look a	 sun? c) Opposition d) Precession xs (6585.3 - 6585.8 days)? c) The Metonic Cycle d) The synodic period of Earth & Mars 	b)	 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 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 Polaris - indicated by the 'Guards' of the Great Bear
28	 side of the Earth from the a) Occultation b) Conjunction What is 18 yrs 10 - 11 day a) A very good age to be b) The Saros 	 sun? c) Opposition d) Precession xs (6585.3 - 6585.8 days)? c) The Metonic Cycle d) The synodic period of Earth & Mars 	b)	 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 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
28	 side of the Earth from the a) Occultation b) Conjunction What is 18 yrs 10 - 11 day a) A very good age to be b) The Saros Picture Question. Look a What is Object A? 	 sun? c) Opposition d) Precession //s (6585.3 - 6585.8 days)? c) The Metonic Cycle d) The synodic period of Earth & Mars t Picture 2 	b)	 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 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 Polaris - indicated by the 'Guards' of the Great Bear
28 29	 side of the Earth from the a) Occultation b) Conjunction What is 18 yrs 10 - 11 day a) A very good age to be b) The Saros Picture Question. Look a What is Object A? a) Deneb b) Polaris 	 sun? c) Opposition d) Precession xs (6585.3 - 6585.8 days)? c) The Metonic Cycle d) The synodic period of Earth & Mars t Picture 2 c) Vega d) Algol 	b) b)	 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 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 Polaris - indicated by the 'Guards' of the Great Bear or Big Dipper
28 29	 side of the Earth from the a) Occultation b) Conjunction What is 18 yrs 10 - 11 day a) A very good age to be b) The Saros Picture Question. Look a What is Object A? a) Deneb b) Polaris What type of star is Betel 	 sun? c) Opposition d) Precession 75 (6585.3 - 6585.8 days)? c) The Metonic Cycle d) The synodic period of Earth & Mars t Picture 2 c) Vega d) Algol geuse? 	b)	 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 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 Polaris - indicated by the 'Guards' of the Great Bear or Big Dipper
28 29	 side of the Earth from the a) Occultation b) Conjunction What is 18 yrs 10 - 11 day a) A very good age to be b) The Saros Picture Question. Look a What is Object A? a) Deneb b) Polaris What type of star is Betel a) Red Dwarf 	 sun? c) Opposition d) Precession xs (6585.3 - 6585.8 days)? c) The Metonic Cycle d) The synodic period of Earth & Mars t Picture 2 c) Vega d) Algol geuse? c) Red Giant 	b) b)	 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 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 Polaris - indicated by the 'Guards' of the Great Bear or Big Dipper A Red Giant type M Red Dwarves are small cool stars eg Wolf 339
28 29	 side of the Earth from the a) Occultation b) Conjunction What is 18 yrs 10 - 11 day a) A very good age to be b) The Saros Picture Question. Look a What is Object A? a) Deneb b) Polaris What type of star is Betel 	 sun? c) Opposition d) Precession 75 (6585.3 - 6585.8 days)? c) The Metonic Cycle d) The synodic period of Earth & Mars t Picture 2 c) Vega d) Algol geuse? 	b) b)	 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 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 Polaris - indicated by the 'Guards' of the Great Bear or Big Dipper

Flamsteed Astronomy Society - Christmas Quiz 2004 Answers

	Answers				
31	Which is the odd one out?		b)	Io is a satellite of Jupiter	
	a) Tethys	c) Titan	,	All the others are satellites of Saturn	
	b) Io	d) Iapetus			
	,				
32	Which of these was writte	n by Galileo Galilei?	b)	Sidereus Nuncius or 'message from the stars'	
	a) De Revolutionibus	c) De Nova Stella		a) was Copernicus c) was Tycho	
	b) Sidereus Nuncius	d) In Loco Parentis		d) means 'my Mother works for SE Trains'	
33	Picture Question. Look at What is Object B?	t Picture 2	c)	Gamma Draconis or Eltamin 'the head of the dragon' Gamma Draconis transits very near the zenith at London	
	a) Alpha Lyrae	c) Gamma Draconis		and was the early target for parallax measurement	
	b) Beta Ursae Majoris	d) Delta Cephei		attempts using zenith telescopes	
34	What was Copernicus edu	ucated to ba?	b)	A Doctor of Medicine	
54	a) Astronomer	c) Priest	0)	Copernicus studied medicine for 3 years at Padua 1501-3	
	b) Doctor	d) Sagger maker's bottom		However, he also studied law at Bologna and received his	
	b) Doctor	knocker		Doctorate in Law from Ferrara in 1503	
		KIIOCKEI		Doctorate in Eaw from Ferrara in 1905	
35	What's the purpose of an	equatorial mounting?	d)	Helps automatically track a star (with the help of a motor	
				drive)	
		esc) To have many bits to drop			
	b) To have fun anywhere	d) To help keep the thing			
		pointed at the same place			
36	Astronomers say "Wow!		c)	Stellar spectral types - hottest to coolest	
	right now Sweetie" to rem			Sun is type G2	
	a) Their mis-spent youth	c) Stellar spectral types		b) Richard Of York Gave Battle In Vain	
	b) Colours of the spectrum			d) Every Good Boy Deserves Favour	
		strings		T (1 1 1 1 1	
31	What type of mirror is use		d)	It doesn't use a mirror. It uses a glass lens	
	28-inch refractor at Green				
	a) Metal speculumb) Silver on glass	c) Aluminium on pyrex			
	b) Shver on glass	d)er. You've been listening to Mike again			
38	When might you hope to s	-	ല	November 15 - 20	
50	a) July 23 - August 20	c) November 15 - 20	()	a) The Perseids d) is the Simpsons	
	b) December 7 - 16	d) 6:00 pm on Channel 4		b) The Geminids	
	b) December 7 - 10	d) 0.00 phi on channel 4		b) The Gennings	
30	39 Who observed the first recorded Transit of Venus?		a)	Jeremiah Horrocks in 1639	
39	77 WHO ODSERVED THE HEST RECORDED TRANSIT OF VENUS?		u)	Halley saw Mercury in 1677 and realised that Venus	
	a) Edmund Halley	c) Nevil Maskelyne		was a better target for transits in 1761 and 1769	
	b) Tycho Brahe	d) Jeremiah Horrocks		Maskelyne went to St Helena for 1761.	
	c, 1jono Diano	a, coronnan montoers		Tycho didn't.	
40	40 In which constellation is the star Aldebaran?		b)	in Taurus, a load of Bull	
10	a) Orion	c) Cortina	,	just like c)	
	b) Taurus	d) Auriga		Mike was born under Taurus, the bull, and boy, was it	
	5, 1 00100	a, manga		surprised!	
			1	r	