-ANSWER KEY-

PART 1:

A.

1. (a)_____Augira____
(b)_____Capella____
2. (a)_____Mizor and Alcor____
(b)_____Big Dipper____
(c)_____Ursa Major____
3. (a)_____Pegasus____
(b)_____Q____
(c)_____Andromeda Galaxy____
4. (a)_____Arcturus____
(b)_____Bootes____
5. (a)_____Cygnus____
(b)_____Deneb____
(c)_____The Summer Triangle____
(d)_____Vega____ (f and g answers can be switched with d and e;
(e)_____Lyra____ either order is ok as long as the pairs are correct)
(f)_____Altair____
(g)_____Aquila____
6. (a)_____Pleiades____
(b)_____Open Cluster____
(c)_____Gemini____
(d)_____Castor (I) ____ (answers to d and e can be switched)
(e)_____Pollux (W)____
7. (a)_____Canis Major____
(b)_____M____
(c)_____Canis Minor____
(d)_____T____
(e)_____Procyon____
8. (a)_____The Beehive Cluster____
(b)_____Scorpio____
(c)_____Antares____
9. (a)_____The Great Nebula or The Orion Nebula____
(b)_____Orion____
(c)_____Betelgeuse____
(d)_____U____
(e)_____Rigil____
(f)_____E____
10. (a)____Cassiopeia____
(b)____Corona Borealis____
(c)____S____
11. (a)____Aldebaran____
(b)____Taurus____
(c)____Hyades____

B.

b. (a)_____18^h45^m_____
(b)_____~14,000 AD____
2. (a)_____Draco____
3. (a)_____24____
(b)_____15^0____
©_____$10{,}800^0$____
4. (a)_____Capella____
(b)_____Auriga____
5. (a)_____0^0 (equator) to $+30^0$____

C.

b. (a)____Celestial Equator____
(b)____Ecliptic____
©____apparent path of the Sun____
2. (a)____0^h____
3. (a)____6^h____
(b)____June 21^{st}____
4. (a)____-23.5^0 to $+23.5^0$____
5. (a)____$+30^0$ to $+60^0$____
6. (a)____18^h , December 21^{st} ____
7. (a)____~7^h, -18^0____
8. (a)____Arcturus____
(b)____Bootes____
9. (a)____Scorpio____
(b)____~90^0____
10. (a)____Taurus____
11. (a)____morning____
12. (a)____Jupiter and Saturn____
(b)____Mars____
13. (a)____along the ecliptic____
14. (a)____The planets lie in the plane of the Solar System and the ecliptic is the ____apparent path of the Sun but in reality is the reflection of the Earth's ____tilt and revolution around the Sun and also lies in the plane of the _____Solar System with the other planets_____
15. (a)____27.3____
(b)____29.5____

You Must Turn In This Answer Section Before Starting Part 2

PART 2:

A

1. ____K,L,J____
2. _____5____
3. ____S____
4. ____A____
5. ____P,O,Q____
6. (a)_____Mercury____
(b)_____Ganymede____
(c)_____Earth's Moon____
(d)_____Earth____
(e)_____Europa____
(f)_____Mars_____
(g)_____Miranda____
(h)_____Venus____

B.

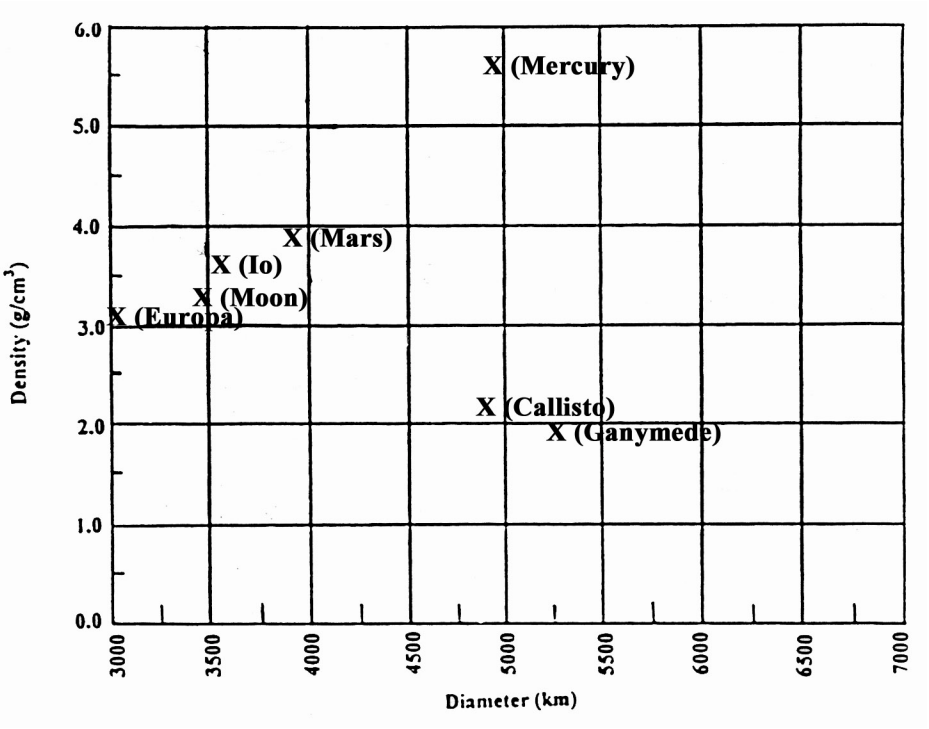
1.
A.____Andromeda Galaxy (M31)____
B.____Venus____
C.____Orion Nebula (Great Nebula)____
D.____Mars____
E.____Total solar eclipse____
F.____Pleiades open cluster____
G.____Total Lunar Eclipse____
H.____Red Spot on Jupiter____
I._____Waning Crescent Moon____
J._____Full Moon____
K.____Callisto____
L.____Beehive Cluster____
M.___Io____
N.___Annular Solar Eclipse____
O.___Hyades open cluster____
P.___Orion constellation____
Q.___Saturn____
R.____Europa____
S.____lunar south pole____

2. (a)___Io (M)____
(b)____Venus (B), Mars (D), Moon (G,I,J, or S)____

3. (a)____Orion nebula (C) is in Orion (P)____
(b)____the 2 stars Betelgeuse and Rigil____

C.

1.



2. _____Calisto and Mercury are similar in size, Io and the Moon are similar in _____size, Europa is smaller than the Moon, and Ganymede is between Mars _____and Mercury_____

3. (a)___Mercury____
(b)___Ganymede____

4. _____density decreases with distance so the inner moons have a higher metal _____content and the outer moons have a density not much higher than water _____and so are composed of mostly icy materials____

D.

1. ___Venus, Earth, Mars, 47 UmaB, 16 Cyg B_____
2. ___Mars, 16 Cyg B____
3. (a)____4 Earth days____
(b)____129 Earth days____
4. _____there is no relationship between size and distance____
5. _____one of the closest planets is 3.8 Jupiter masses, then there are some less _____than 1 Jupiter mass and the furthest planet is 2.4 Jupiter masses_____