ANSWER PAGES FOR EXERCISE 14.0 ON ECLIPSES

1.	Date sun at ascending node:; a	t descending node:
2.	Significance of above dates is	
3.	Phase of the Moon:	
4.	Lunar event or aspect:	
5.	Location of nearest lunar orbital node:	
6.	Identification of node:	
7.	Identification of node:	

- 8. Considering the angular distance of the Earth's shadow from the nearest node and the line the Moon follows through the shadow, why is or isn't this an umbral eclipse that is of maximum duration?
- 9. Type of eclipse: _____

10.	Eclipses in 2007		Eclipses in 2011	
	1 st season	2 nd season	1 st season	2 nd season

11.	. Next lunar eclipse visible from here:		
12.	Next solar eclipse visible at this location:		
13.	Coordinates of lunar nodes:	Ascending node: RA	_ Dec
		Descending node: RA	_ Dec
14.	Measured distance along ecliptic in cm between the VE & AE:		
15.	Elongation chart scale:		(deg./cm).

Exercise 14.0. Answer Page 2

16.	Separation of nodes along ecliptic in cm:; in degrees:				
17.	Angular distance of nearest lunar orbital node from the center of the cross-section of the Earth's shadow for the eclipse of 5-24-1994 :				
18.	The middle dates for each season in 2007 are and				
19.	. Time interval between middle dates for each eclipse seasons in 2007:				
20.	The beginning and end dates for each of the eclipse seasons for the year 2007 are:				
	to, and to				
21.	Middle dates for each eclipse season in 2011 are and				
22.	Time interval between middle dates for each eclipse seasons in 2011:				
23.	The beginning and end dates for each of the eclipse seasons for the year 2011 are:				
	to, and to				
24.	Amount the eclipse seasons shifted in weeks between the above years is:				
	The amount of shift per year is:				
25.	Astronomical name for this shift:				
26.	Cause of the shift in the eclipse seasons:				
07					

27. Zone time of lunar opposition from printout #2: