

SCORE
(5 pts max)

ASTRONOMY 2
THIRD HOUR SESSION "F"

ACTIVITY: Introduction to the *Sky Gazer's Almanac*

NAME KEY - F

DATE

ID#

1. What time does the Sun rise on March 25?

5:55 AM (± 5 minutes)

2. What time does the Sun set on March 24?

6:15 PM (± 5 minutes)

3. What time does evening twilight end on March 24?

7:50 PM (± 5 minutes)

4. What time will Venus rise on March 25?

4:35 AM (± 5 minutes)

5. What time does Mars set on March 24?

10:40 PM (± 5 minutes)

6. On what date does Jupiter transit at 1:30 AM?

May 21 (± 2 day)

7. Is Saturn above the horizon on May 19 at midnight?

Yes

8. How many hours and minutes earlier does Antares rise between the dates of February 4 and March 18?

2 hours 45 minutes (± 10 minutes)

9. What date will the planet Jupiter next be located at opposition?

June 9 (± 1 day)

10. What day will celestial objects Venus and Saturn be in conjunction with each other?

February 18 (± 1 day)

(Questions continue on back)

11. What day will celestial objects Jupiter and Mars be in opposite parts of the sky this year?

May 1/April 30 (± 1 day)

12. The times given on the Almanac are given in local mean time (close to standard time for a Rocklin observer). If we were on daylight savings time, what time will our watches show for sunset on May 26?

8:20 PM (± 5 minutes)

13. Assuming that Rocklin is at a latitude of 40° north and a longitude of 121° west, how many minutes must the *Almanac's* local mean times be corrected to give the standard time on your watch for a given event? And are these minutes added or subtracted from the *Almanac's* local mean time?

4

added
