I. Telescope Tests

1. Find M15, M27 or one specified star.
2. Estimate the magnitude of a specified star.
3. Evaluate the angle distance of two stars.

II. Tests in the Planetarium

1. The showing is the night sky in Beijing on 21 o'clock tonight. You have two minutes to observe it.
The examiner will point 5 constellations using the laser pen one by one. Each constellation will be pointed about 1 minute. Write down the name of the five constellations. 25 points in total and 5 points per constellation.

Answer:

Cygnus (Cyg), south fish place (Psa), Delphinus (Del), corona borealis (Crb), proxima centauri (Sgr)

2. Write down any five constellations that lie on current celestial equator. 10 minutes, 25 points. More than five constellations, no additional points.

marking criterion:

Virgo (Vir), Serpens (Ser), Ophiuchus (Oph), Aquila (Aql), Aquarius (Aqr), Pisces (Psc), Cetus (Cet).

-- One constellation (included in the above 7 constellations), 5 points.

Libra (Lib), Hercules (Her), Scutum (Sct), Delphinus (Del), Equuleus (Equ), Pegasus

(Peg).

-- One constellation (included in the above 6 constellations), 2 points

3. The showing is the night sky in Beijing on a specified night. Determine the month that the night belongs to. What's the age of the moon for this night? Be accurate to one unit. 10 minutes, 20 points.

marking criterion:

The time is 19h30m, February 15, 2008.

The month: February ~ 10 points

January or March ~ 5 points

Other ~ 0 points

Moon's age: about 9. ~ 10 points

8 or 10 ~ 7 points

7 or 11 ~ 3 points

Other ~ 0 pints