

IAO 2019 – Piatra Neamț, România
Observational Round (Telescope). Answers.

Point allocation:

A. 50%

Percentage

A1. 12.5%

A2. $3 \times 7.5\% = 22.5\%$

A3. 15%

10pct

Absolute

2.5 pct

$3 \times 1.5 = 4.5$ pct

3 pct

B. 55%

Percentage

B1. 15%

B2. 20%

B3. 15%

10 pct

Absolute

3 pct

$4 \times 1\text{pct} = 4$ pct

3 pct

Total A + Total B = Total for observational round

10 pct + 10 pct = 20 pct

A. Naked eye observations

A1. Answer:

78°

Full points if error $\leq \pm 5^\circ$

Half points if error $> \pm 5^\circ$, but $\leq \pm 10^\circ$

A2. Answer:

Star A:

α Cyg

Star B:

α Lyr

Star C:

α Aur

The order is not important.

A3. Answer:

Ophiuchus

B. Telescope observations

B1. The telescope assistant was able to see M31 in the eyepiece.

B2. Answer:

Object A
name

M32

Object A
position
relative to M31

S

Object B
name

M110

Object B
position
relative to M31

NW

B3. The telescope assistant was able to see Neptune in the eyepiece.