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

Point allocation:

| **A. 50%** | **10pct** | **B. 55%** | **10 pct** |
|---|---|---|---|
| Percentage | Absolute | Percentage | Absolute |
| A1. 12.5% | **2.5 pct** | B1. 15% | **3 pct** |
| A2. 3 x 7.5% = 22.5% | 3 x 1.5 = **4.5 pct** | B2. 20% | 4 x 1pct = **4 pct** |
| A3. 15% | **3 pct** | B3. 15% | **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 ≤ ±5°** **Half points if error > ±5°, but ≤ ±10°**

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A2. Answer:

Star A: **α Cyg**

Star B: **α Lyr**

Star C: **α Aur**

The order is not important.

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A3. Answer:

**Ophiuchus**

## B. Telescope observations

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

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B2. Answer:

Object A name: M32

Object A position relative to M31: S

Object B name: M110

Object B position relative to M31: NW

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