

XIX Международная астрономическая олимпиада  
XIX International Astronomy Olympiad

Бишкек – Чолпон-Ата

12–21. X. 2014

Bishkek – Cholpon-Ata

ЯЗЫК  
language

**English**

**Observational round. Questions.**  
**Clear sky**

Code of participant

код участника

**Observations by the naked eye**

9. Assess the color of the stars and mark accordingly it with a “X”:

	White	Blue	Yellow	Red
$\alpha$ UMi				
$\alpha$ And				
$\alpha$ Ari				
$\alpha$ Cyg				
$\alpha$ Tau				

Answer:

10. What is the angular distance between  $\alpha$  Cas and the north celestial pole?

11. Specify direction to the points of intersection of the ecliptic and the equator.

List the names of the constellations (in Latin) in which these points are located.

Answer:

**Observations with telescope**

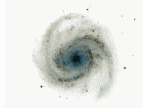
12. Point your telescope to the M45. Show to the examiner. Classify the object as one of the following: open cluster (OC), a globular cluster (GC), an emission nebula (EN) and planetary nebula (PN).

Answer:

13. Point your telescope to the binary star  $\pi$  Pegasus using 10 mm eyepiece and *star map* as a guide. Estimate the distance between the stars in arc minutes.

Answer:

The maximum total time for all tasks is **20 minutes**.



Наблюдательный тур.  
Чистое небо

Observational round.  
Clear sky

