**QUESTION I. (carried out together outside, duration: 15 minutes)**

1. Fill in the blank below

|  |  |  |
| --- | --- | --- |
| Local time | Universal Time (UT) | Siderial Time (LST) |
|  |  |  |

1. Find 3 bright stars in the sky and fill in the blank

|  |  |  |  |
| --- | --- | --- | --- |
| No | Name or catalog number of the bright stars | Constellation | Direction in the sky (in North/West/East/South/South East/South West/North West/North East |
|  |  |  |  |

**QUESTION II (carried out at each telescope location)**

Equipments:

1. 1 telescope C8, 20.3 cm of diameter and 203 cm of focal length
2. 4 eyepieces, with 5.5 mm, 14 mm, 20 mm, and 25 mm of focal length
3. 1 telescope Spica (galilean telescope)
4. 1 laser pointer
5. 1 sky chart/sky map

II.1. **Use telescope C8** and point it out to one of **Messier cluster**. Use the sky map to help if needed. Choose one of the eyepieces(you can only choose once) to observe full view ot the cluster. Sketch the observed cluster on the answer sheet. Write the orientation down (sky direction, north and east).

II.2. **Use telescope Spica,** point it out to the moon and sketch the moon surface as best as you can do, including the orientation (sky direction, north and east)

II.3 Show to the jury (using laser pointer): **Corona Australis** **constellation** and **the ecliptic**.

**Answer sheet of question II**

**II.1**

Object : constellation: direction:

Eyepiece : 1 / 2 / 3 / 4 (check the chosen one)

Sketch : (write the sky direction, north and east)

**II.2**

|  |
| --- |
| Object: Moon Moon phase: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Sketch : (write the sky direction, north and east) |

**III.3** (filled by the jury)

Cor Aus :

Ecliptic :