**MARKING SCHEME for Observational\_part1 – Planetarium (50 points)**

**Question1 (20 points)**

1. First arc length – length **– MERIDIAN 10º - 1p+2p**

Second arc segment length **– EQUATOR 15º - 1p+2p**

1. θsidereal – **13h30m 6p**

**+/- 15 m – full points; +/- 30 m half points**

1. Month number – **June (6) - 8p**

**Question 2 (15 points)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1st Messier object | M101  **2p** | Number which indicates the type | 1  **1p** | IAU abbreviation of the constellation | UMa  **2p** |
| 2nd Messier object | M57  **2p** | Number which indicates the type | 2  **1p** | IAU abbreviation of the constellation | Lyr  **2p** |
| 3rd Messier object | M92  **2p** | Number which indicates the type | 4  **1p** | IAU abbreviation of the constellation | Her  **2p** |

**Question 3 (15 points)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1st Star |  UMi / Kochab  **2p** | Number which indicates the type | 1  **1p** | IAU abbreviation of the constellation | UMi  **2p** |
| 2nd Star | γLeo / Algieba  **2p** | Number which indicates the type | 2  **1p** | IAU abbreviation of the constellation | Leo  **2p** |
| 3rd Star | CVn / Cor Caroli  **2p** | Number which indicates the type | 2  **1p** | IAU abbreviation of the constellation | CVn  **2p** |