

MARKING SCHEME for Observational_part1 – Planetarium (50 points)

Question1 (20 points)

- a. First arc length – length – **MERIDIAN 10° - 1p+2p**
Second arc segment length – **EQUATOR 15° - 1p+2p**
- b. θ_{sidereal} – **13h30m** **6p**
+/- 15 m – full points; +/- 30 m half points
- c. Month number – **June (6) - 8p**

Question 2 (15 points)

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

Question 3 (15 points)

1 st Star	β UMi / Kochab 2p	Number which indicates the type	1 1p	IAU abbreviation of the constellation	UMi 2p
2 nd Star	γ Leo / Algieba 2p	Number which indicates the type	2 1p	IAU abbreviation of the constellation	Leo 2p
3 rd Star	α CVn / Cor Caroli 2p	Number which indicates the type	2 1p	IAU abbreviation of the constellation	CVn 2p