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. $\theta_{sidereal} 13h30m$ 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	М57 2р	Number which indicates the type	2 1p	IAU abbreviation of the constellation	Lyr 2p
3 rd Messier object	М92 2 р	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

MARKING SCHEME for Observational part2 – Chart (50 points)

Question 1 - 2p

Question 2 - 8p (2p for each line (2p x 4 = 8p))

Question 3 - 9p (0.5p for each cardinal point (0.5p x 4 = 2p); 1.4p for each planet (1.4p x 5 = 7p))

Question 4 - 4p (each star name 0.5p + at correct position in the list 0.5p)

	1	Name of the star	α Boo (Arcturus)
Marking on the	2	Name of the star	α Lyr (Vega)
map	3	Name of the star	α Aur (Capella)
	4	Name of the star	α Aql (Altair)

Question 5 - 6p (0.4 p for each constellation (15 constellations))

- Question 6 5p (each object 1p)
- Question 7 **10p** (18h; +/-15m full points; +/- 30m half points)
- Question 8 6p (Ascension 20h + / -1h 3p; Declination $+10^{\circ} + / -5^{\circ} 3p$)