

Marking scheme

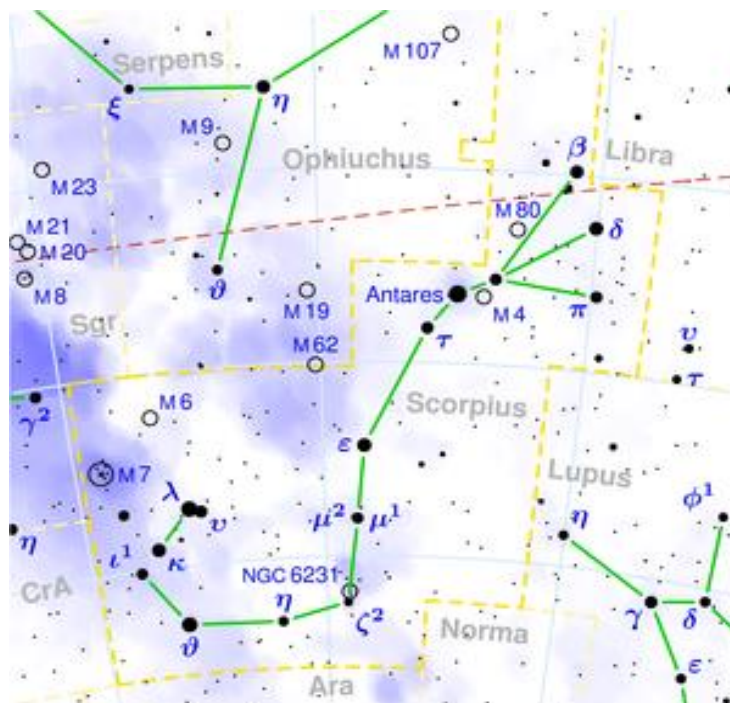
1. Correct drawing for Scorpio constellation border : +15 (max)
2. Correct drawing for Capricorn constellation border : +15 (max)
3. Correct location of 3 bright stars in Scorpio : +10 (max. = 40)
4. Correct location of 2 bright stars in Capricorn : +10 (max. = 20)
5. Additional correct answer for bright star locations in both constellation, each location: +5
6. Correct answer for 3 bright stars in Scorpio : +10 (max. = 40)
7. Correct answer for 2 bright stars in Capricorn : +10 (max. = 20)
8. Additional correct answer for bright star names in both constellation; each name: +5

MAXIMUM MARK = 150

Answer:

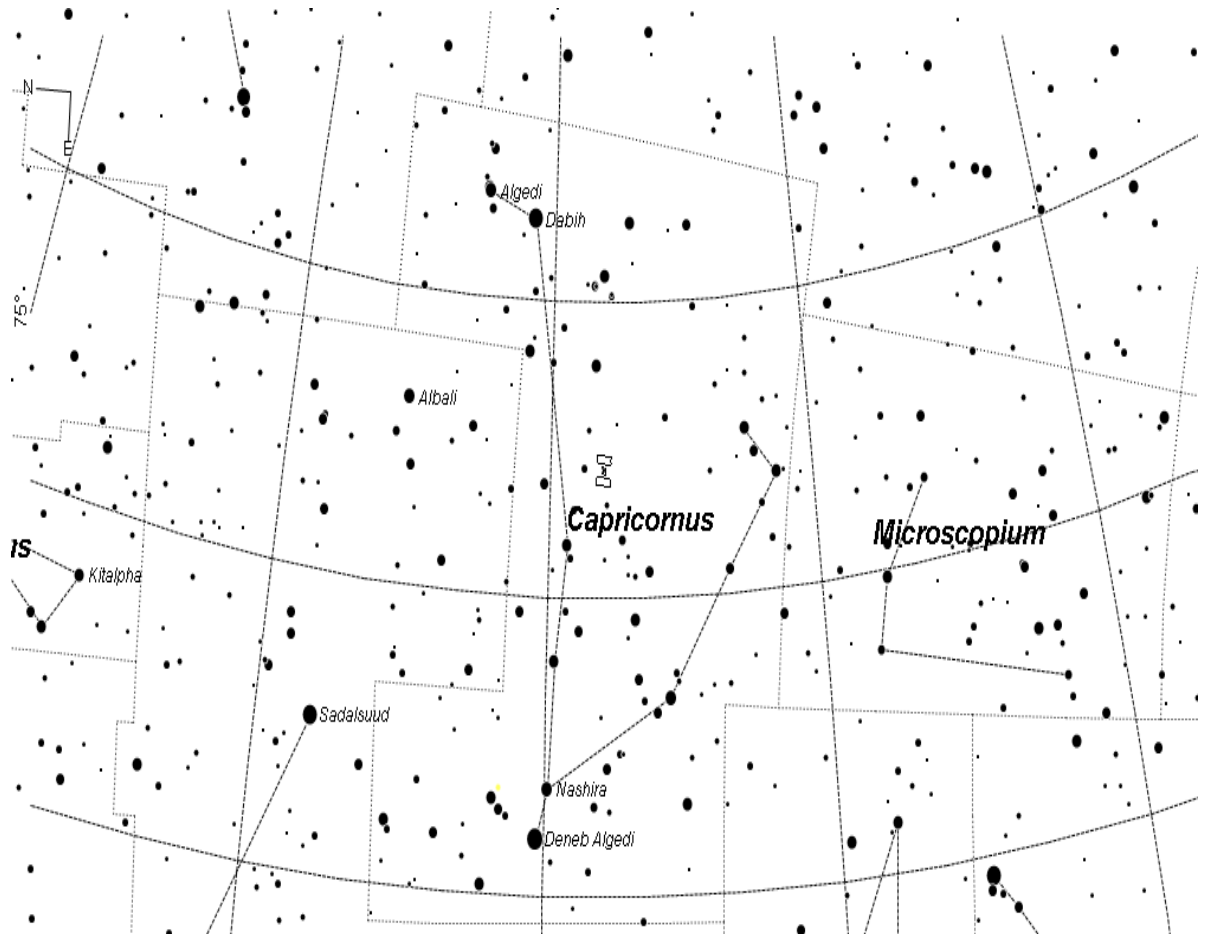
1. There are 9 bright stars in Scorpio constellation in the Table 1

Number	Common Names	Bayer designation
2	Acrab Graffias	β Sco.
8	Girtab	κ Sco
11	Dschubba	δ Sco.
16	Antares (given)	α Sco.
20	Shaula	λ Sco
21	Vrischika	π Sco
26	Wei	ϵ Sco
29	Lesath	ν Sco
34	Sargas	θ Sco



2. There are 4 bright stars in Capricorn constellation in the Table 1

Number	Common Names	Bayer Designation
7	Dabih	β Cap.
13	Algiedi	α Cap.
23	Deneb Algiedi	δ Cap.
28	Nashira	γ Cap.



Solution of PART I: Naked Eye

Sky chart at 19.00 on 21 August 2008

Figure 1

