Marking scheme

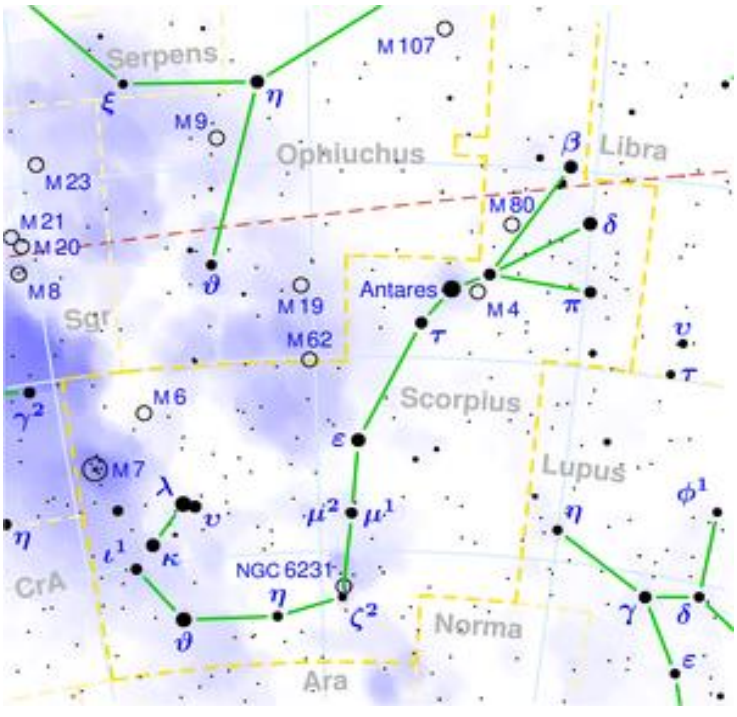
1. Correct drawing for Scorpio constellation border : +15 (max)
2. Correct drawing for Capricorn constellation border : +15 (max)
3. Correct location of 3 bright stars in Scorpio : +10 (max. = 40)
4. Correct location of 2 bright stars in Capricorn : +10 (max. = 20)
5. Additional correct answer for bright 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:

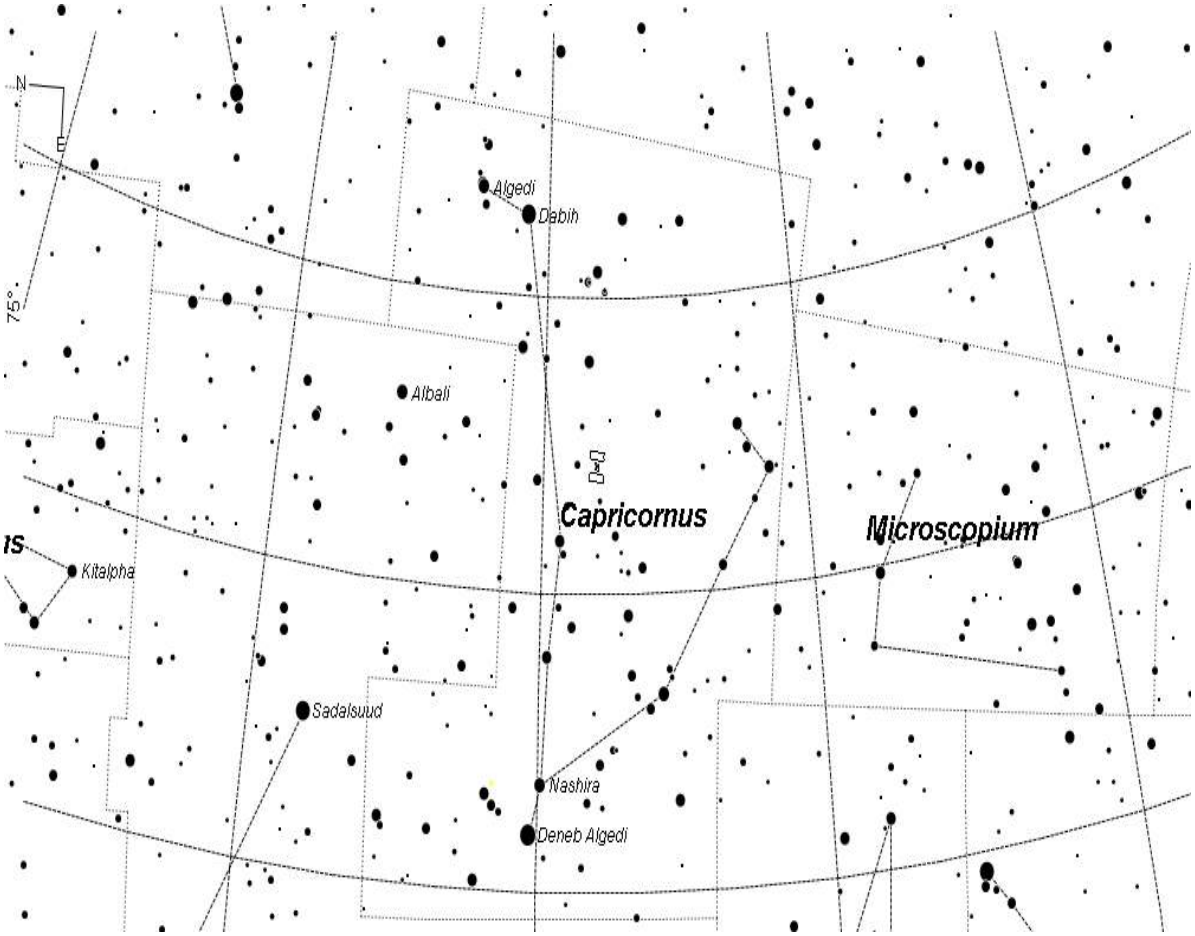
1. There are 9 bright stars in Scorpio constellation in the Table 1

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**	**υ 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 Algedi**	**δ Cap.**
28	**Nashira**	**γ Cap.**



2nd International Olympiad on Astronomy and Astrophysics

BANDUNG - INDONESIA 2008

Solution of PART I: Naked Eye

Sky chart at 19.00 on 21 August 2008

Figure 1

