Marking scheme:

Student who has the highest number of stars identified (N_m) =	60%
Other students who get N stars =	N*0.60/N_m
Estimation of the limiting magnitude =	0 – 20%
(Δ<1 mag : full mark, 1<Δ<2 mag half mark, Δ>3 mag : 0)	
Good image quality (unsaturated, not under expose)	20%

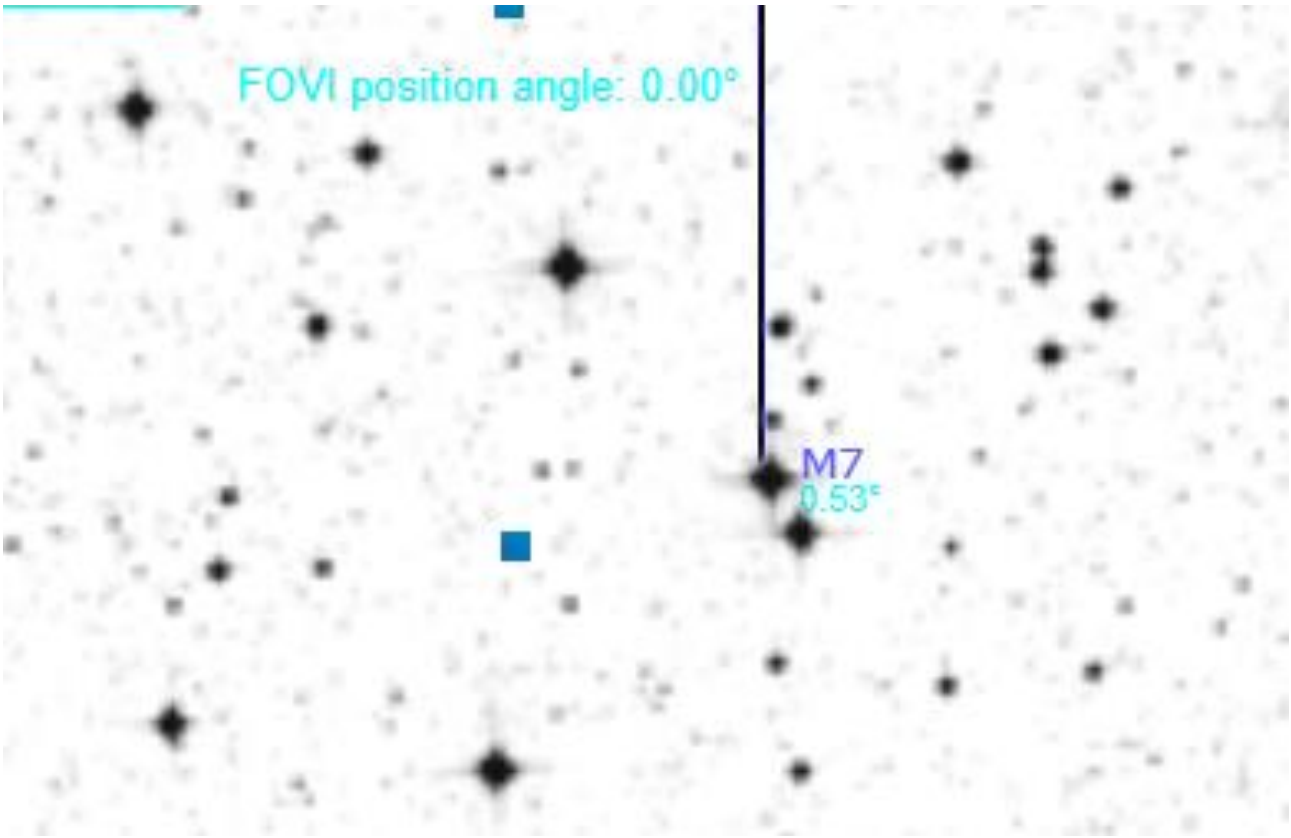
TOTAL MARK = 100

2nd IOAA BANDUNG - INDONESIA 2008 — 2nd International Olympiad on Astronomy and Astrophysics	**Answer Page** **Sky chart Image** Country and Student codes: ……

Selected region : M7 ($\alpha=17^h53.^m3$, $\delta= -34º46.'2$)

Central equatorial coordinates : $\alpha=17^h54^m22.3^s$, $\delta= -34º47'15"$

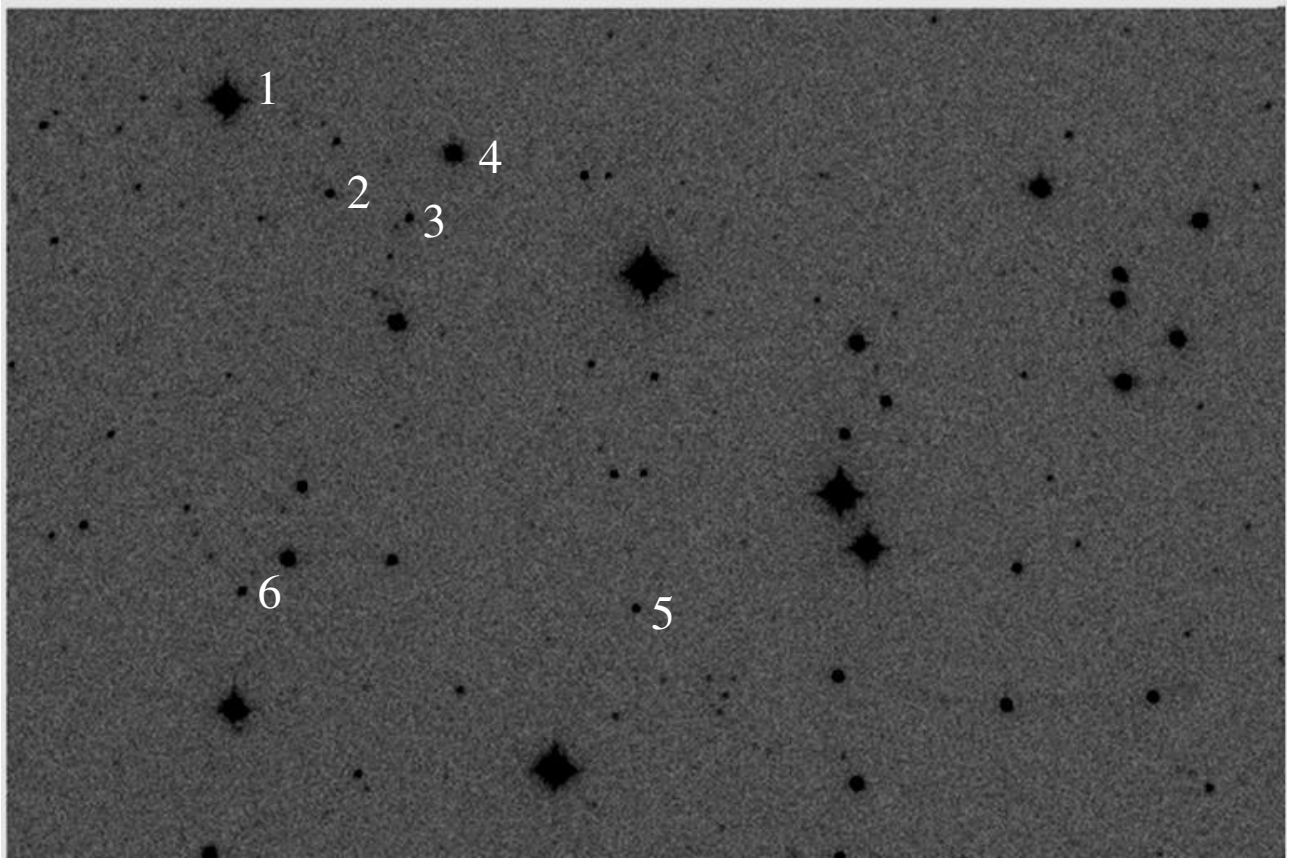
Figure 1



2nd International Olympiad on Astronomy and Astrophysics
BANDUNG - INDONESIA 2008

Answer Page
CCD Image 1
Country and Student codes:
.....

Figure 2



Exposure time: 5 sec

2nd IOAA BANDUNG - INDONESIA 2008 — 2nd International Olympiad on Astronomy and Astrophysics

Answer Page
Identification
Country and Student codes:
.....

Number	Names or Catalogue number	R.A.	Declination	Magnitude
1	SAO 209436	17h 54m 14.380s	-34°43'39.535"	6.88
2	GSC 7386:494	17h 54m 09s	-34°44'31"	11.6
3	GSC 7386:601	17h 54m 06s	-34°44'44"	12.2
4	GSC 7386:561	17h 54m 04s	-34°44'06"	8.5
5	GSC 7386:15	17h 53m 55s	-34°48'20"	11.9
6	GSC 7386:40	17h 54m 13s	-34°48'18"	11.8

Limiting magnitude of the photograph is .....

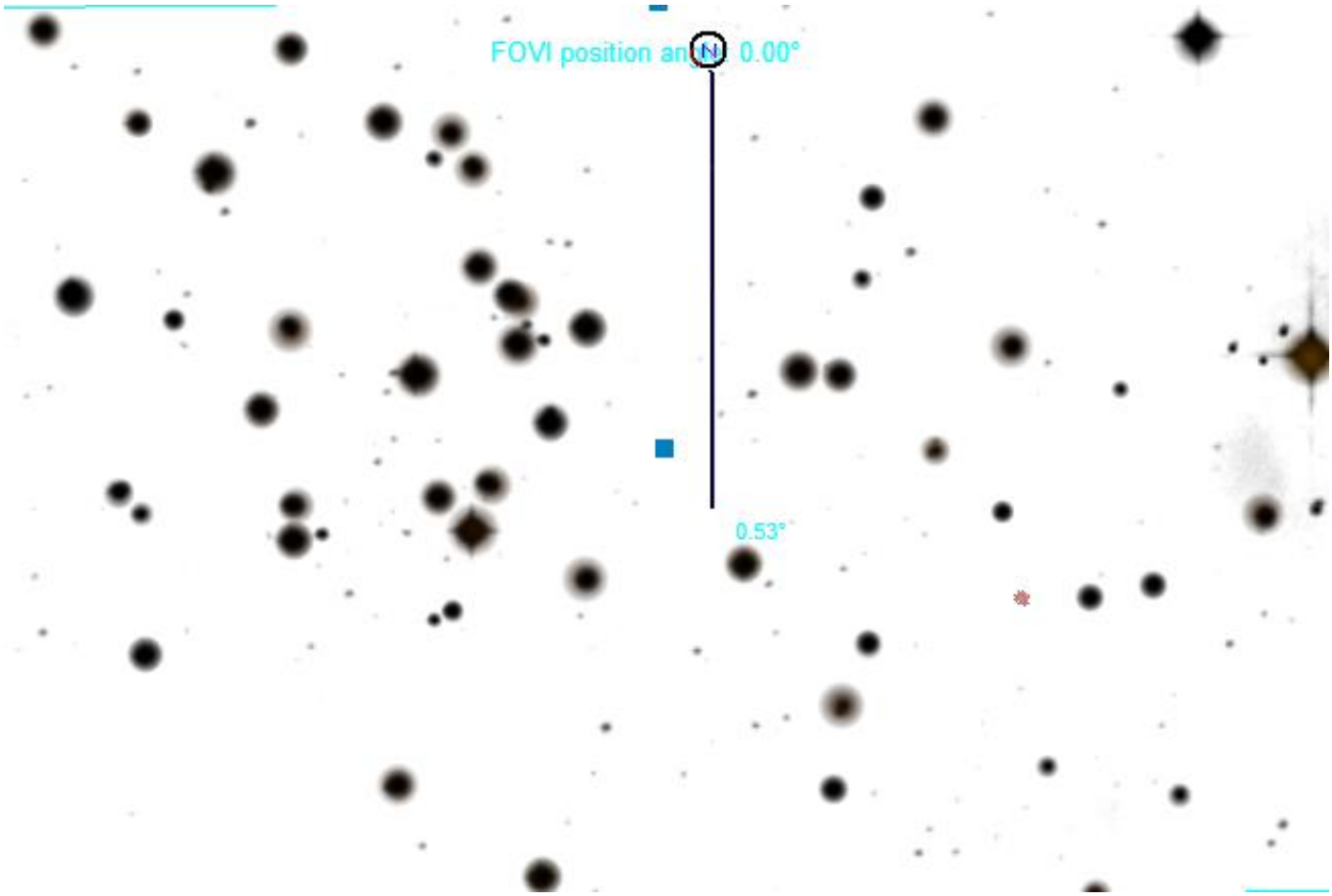
2nd International Olympiad on Astronomy and Astrophysics
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Answer Page
Sky chart Image
Country and Student codes:
.....

Selected region : M8 ($\alpha=18^h04.^m2$, $\delta= -24º22.'1$)

Central equatorial coordinates : $\alpha=18^h04^m51^s.2$; $\delta=-24^o23'04"$

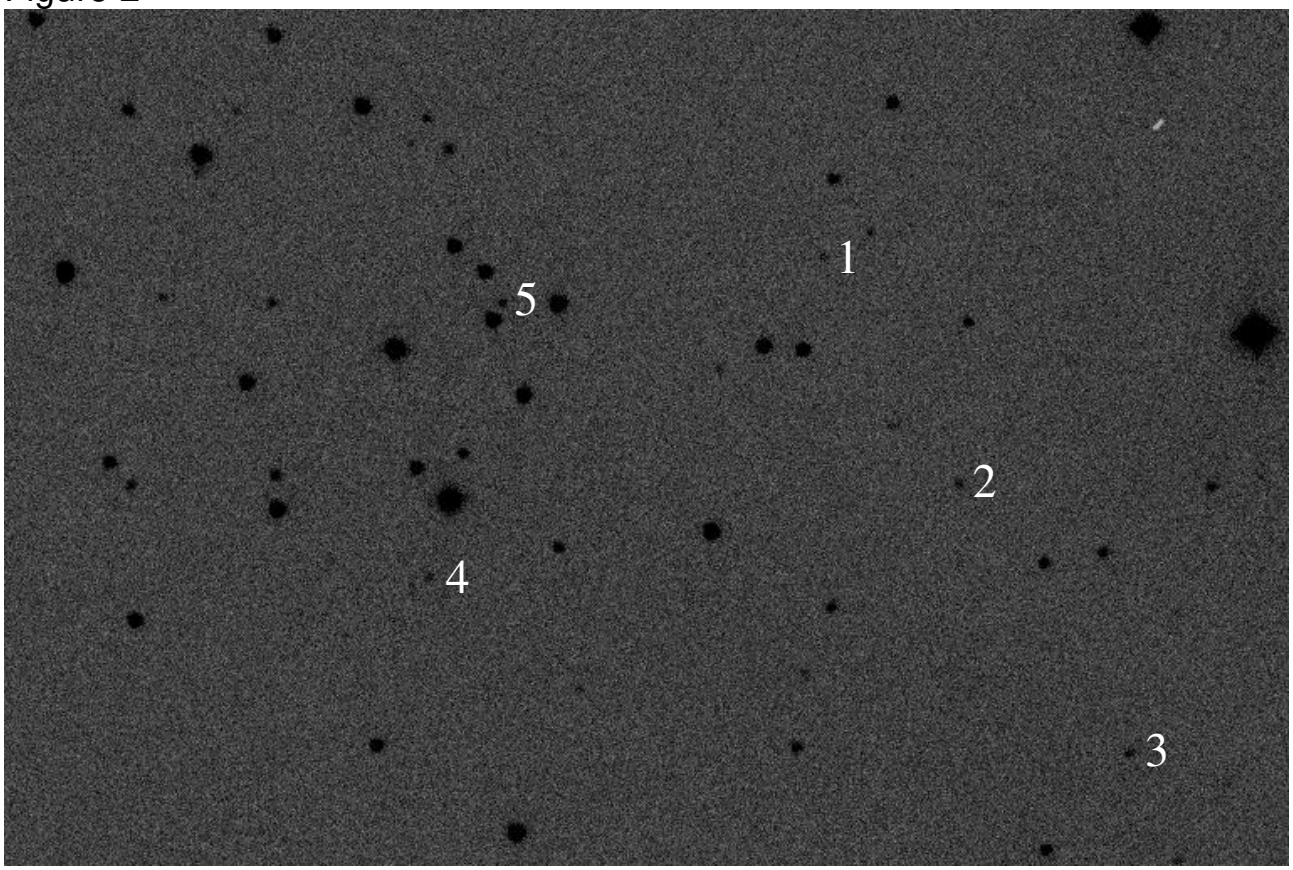
Figure 1



2nd International Olympiad on Astronomy and Astrophysics
BANDUNG - INDONESIA 2008

Answer Page
CCD Image 1
Country and Student codes:
.....

Figure 2



Exposure time: 10 sec

2nd International Olympiad on Astronomy and Astrophysics
2nd IOAA BANDUNG - INDONESIA 2008

Answer Page
Identification
Country and Student codes:
.....

Number	Names or Catalogue number	R.A.	Declination	Magnitude
1	GSC 6842:1751	18h 04m 10s	-24°20'53"	12.5
2	GSC 6846:166	18h 04m 05s	-24°23'01"	12.1
3	GSC 6846:211	18h 03m 58s	-24°25'35"	12.0
4	GSC 6846:718	18h 04m 27s	-24°23'52"	12.4
5	GSC 6842:1578	18h 04m 23s	-24°21'25"	13.4

Limiting magnitude of the photograph is .....

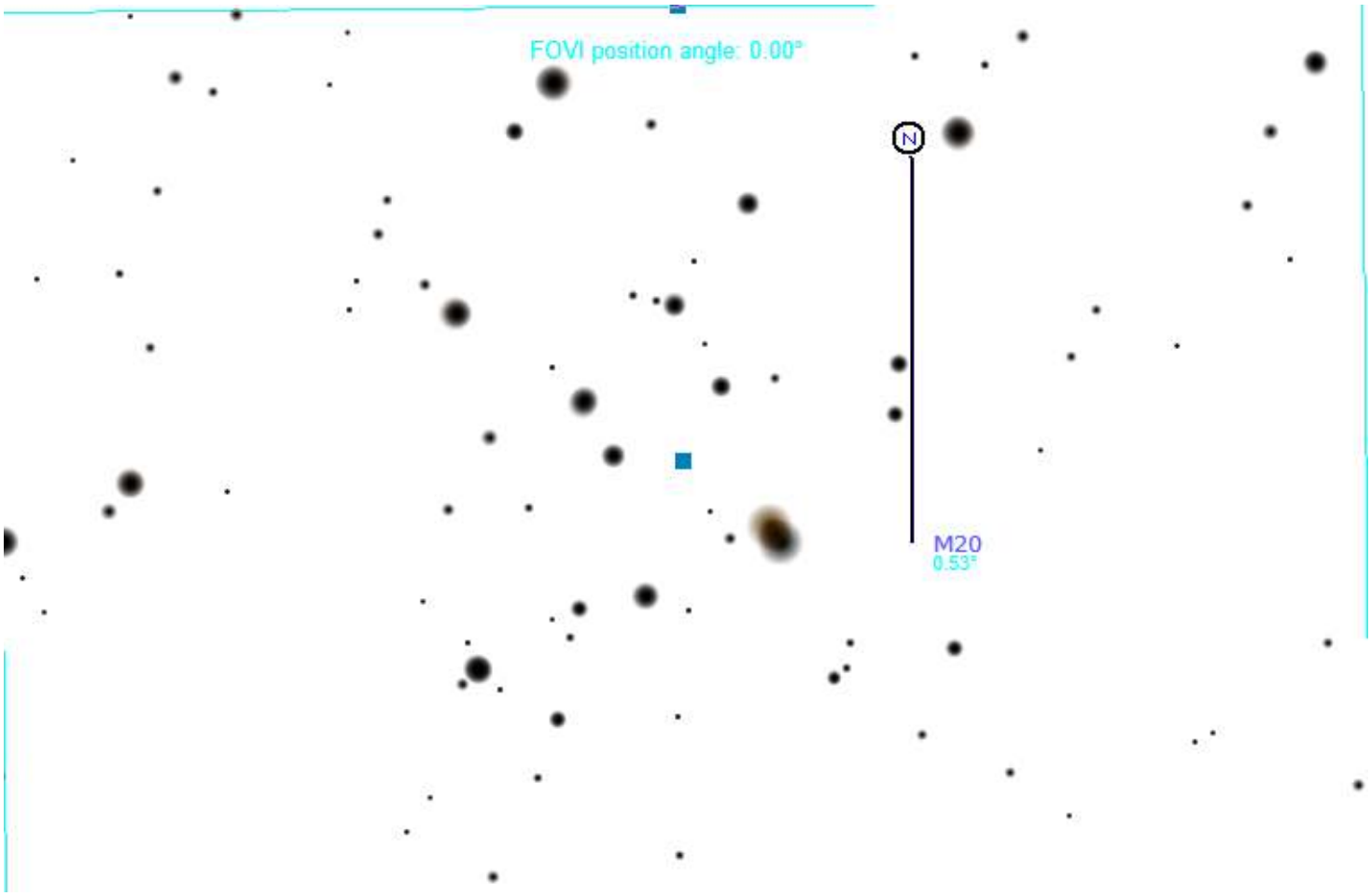
2nd International Olympiad on Astronomy and Astrophysics
BANDUNG - INDONESIA 2008

Answer Page
Sky chart Image
Country and Student codes:
.....

Selected region : M20 ($\alpha=18^h02.^m4$, $\delta= -22^o58.'7$)

Central equatorial coordinates : $\alpha=18^h02^m56^s.7$, $\delta=-23^o01'56"$

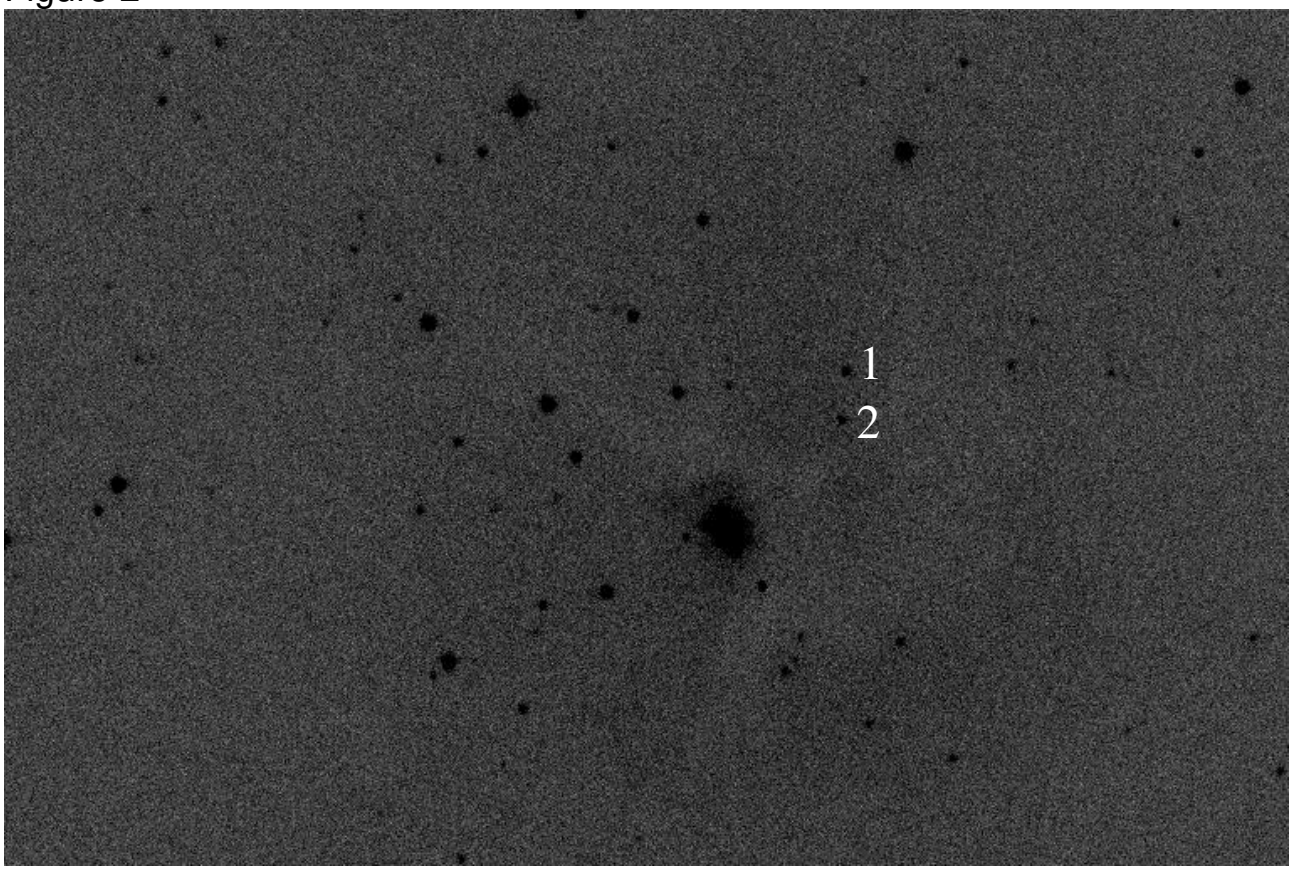
Figure 1



2nd IOAA BANDUNG - INDONESIA 2008
2nd International Olympiad on Astronomy and Astrophysics

Answer Page
CCD Image 1
Country and Student codes:
.....

Figure 2



Exposure time: 10 sec

2nd International Olympiad on Astronomy and Astrophysics
BANDUNG - INDONESIA 2008

Answer Page
Identification
Country and Student codes:
……

Number	Names or Catalogue number	R.A.	Declination	Magnitude
1	GSC 6842:631	18h 02m 18s	-23°00'25"	12.4
2	GSC 6842:240	18h 02m 19s	-23°00'52"	12.8

Limiting magnitude of the photograph is ……

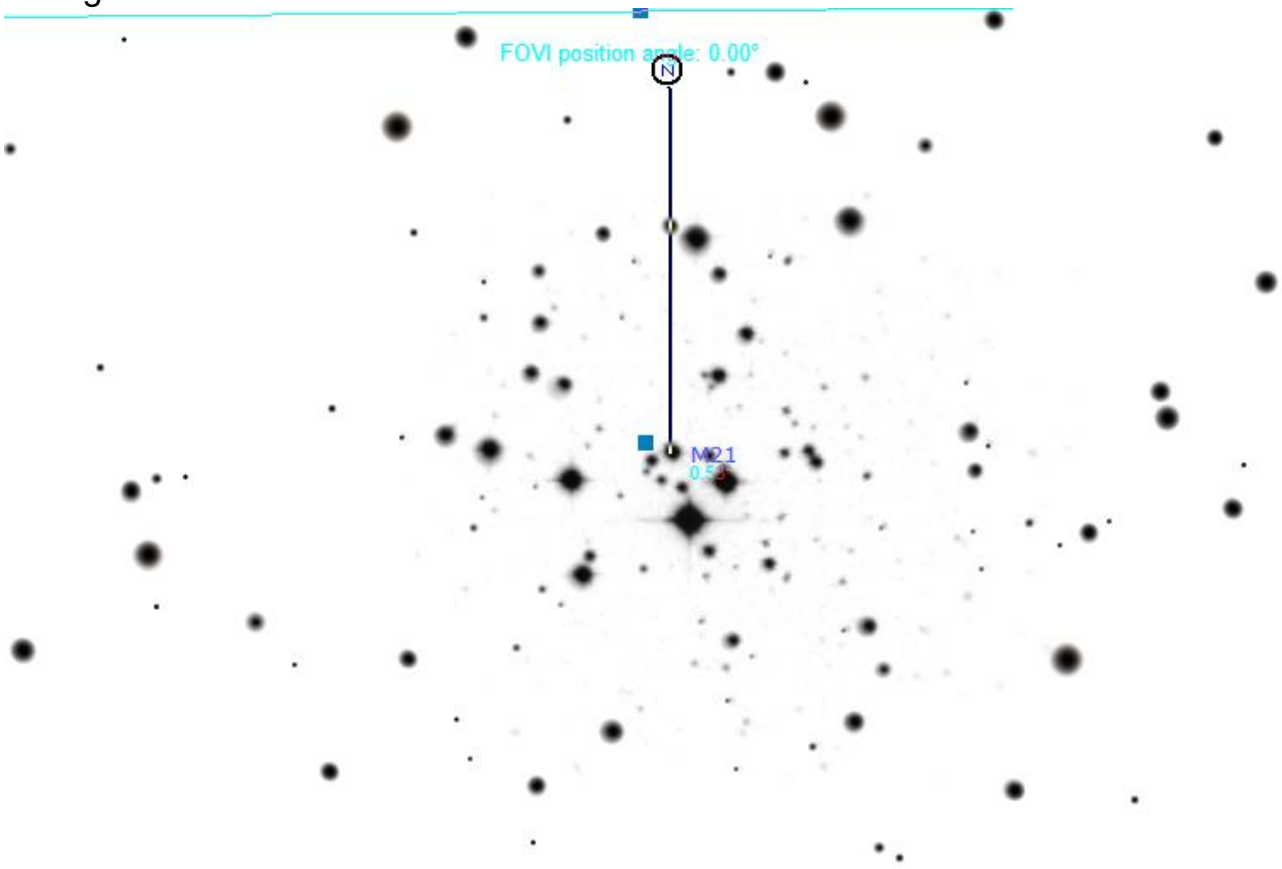
2nd International Olympiad on Astronomy and Astrophysics
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Answer Page
Sky chart Image
Country and Student codes:
……

Selected region : M21 ($\alpha=18^h04.^m2$, $\delta= -22^o29.'5$)

Central equatorial coordinates : $\alpha=18^h04^m46^s.3$, $\delta=-22^o29'27"$

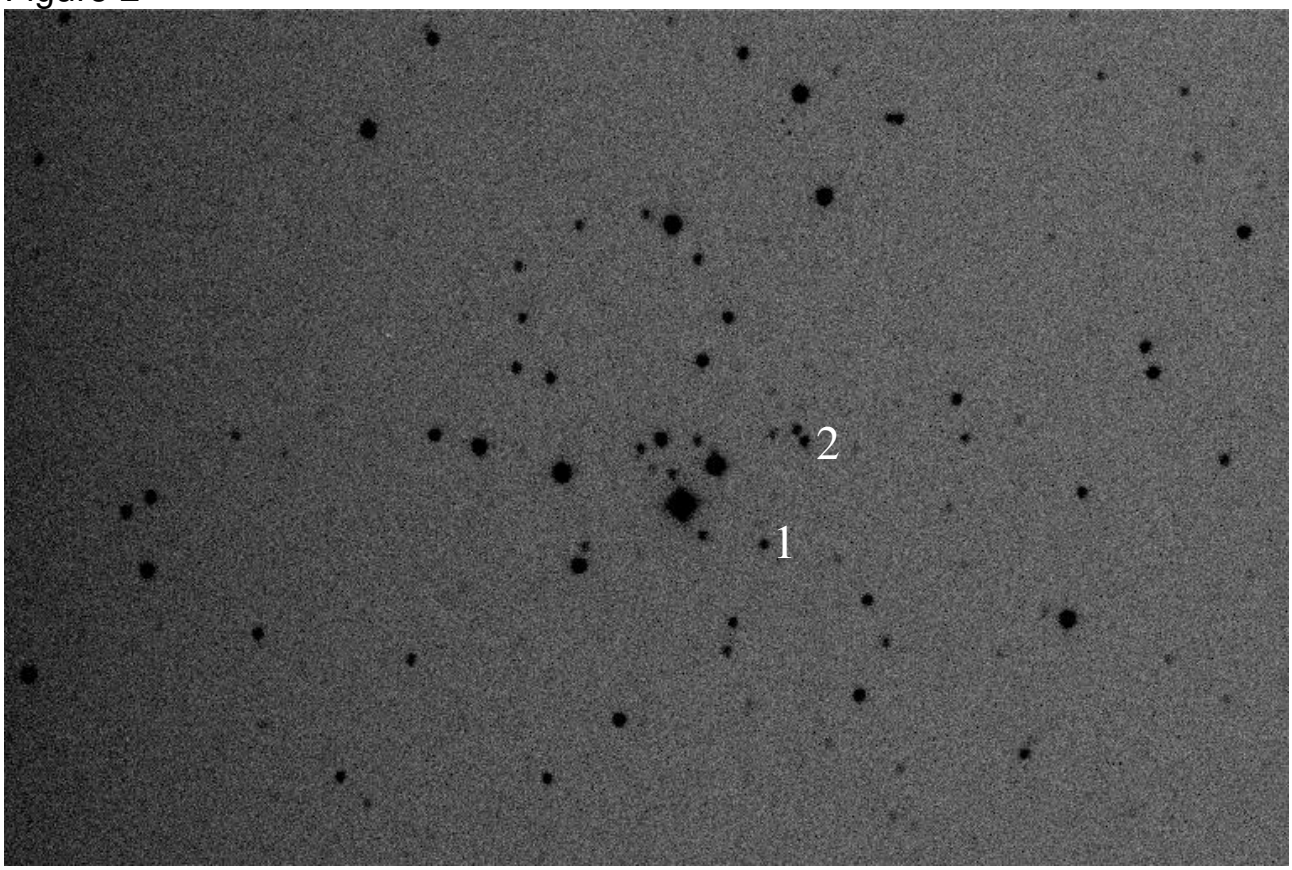
Figure 1



2nd International Olympiad on Astronomy and Astrophysics
BANDUNG - INDONESIA 2008

Answer Page
CCD Image 1
Country and Student codes:
.....

Figure 2



Exposure time: 10 sec

2nd International Olympiad on Astronomy and Astrophysics
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Answer Page
Identification
Country and Student codes:
……

Number	Names or Catalogue number	R.A.	Declination	Magnitude
1	GSC 6842:985	18h 04m 09s	-22°30'28"	12.9
2	GSC 6263:306	18h 04m 01s	-22°29'36"	13.1

Limiting magnitude of the photograph is ……

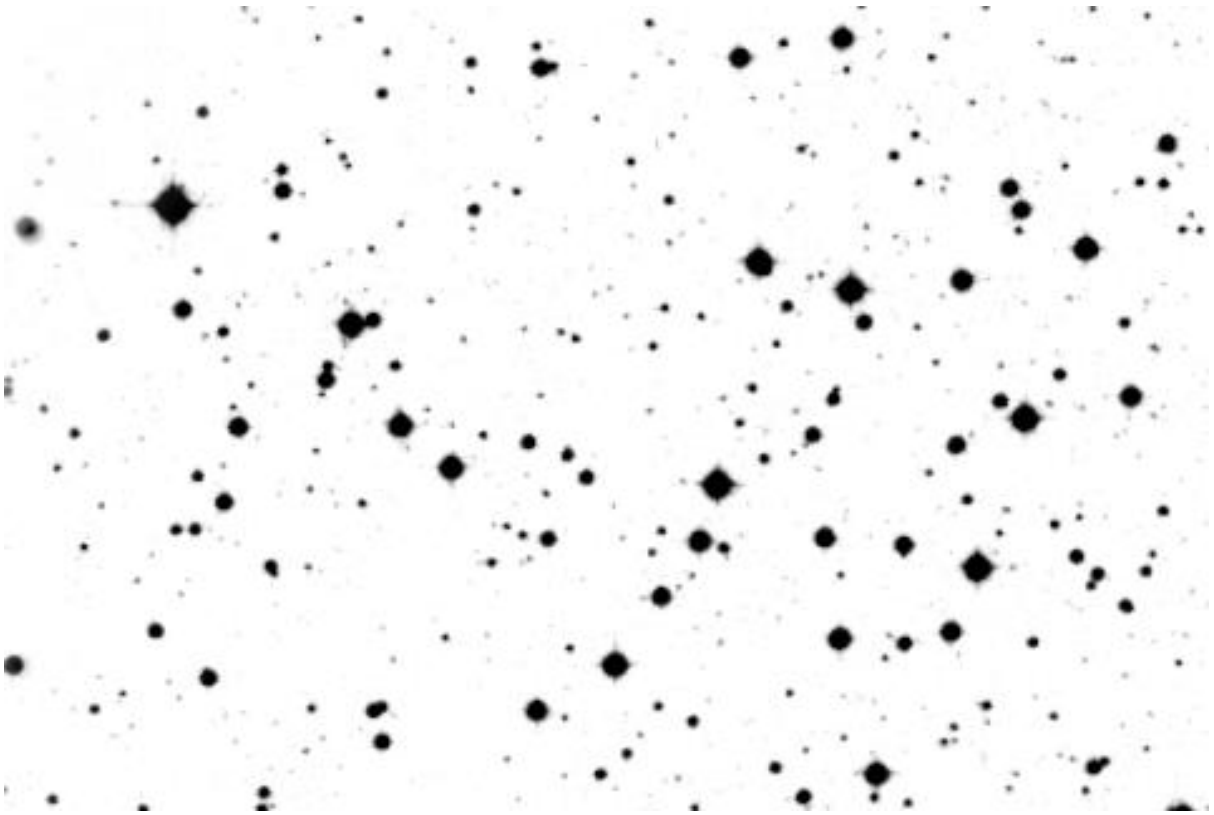
2nd International Olympiad on Astronomy and Astrophysics
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Answer Page
Sky chart Image
Country and Student codes:
.....

Selected region : M23 ($\alpha=17^h57.^m0$, $\delta= -18^o59.'4$)

Central equatorial coordinates : $\alpha=17^h57^m32^s.1$, $\delta=-19^o01'08"$

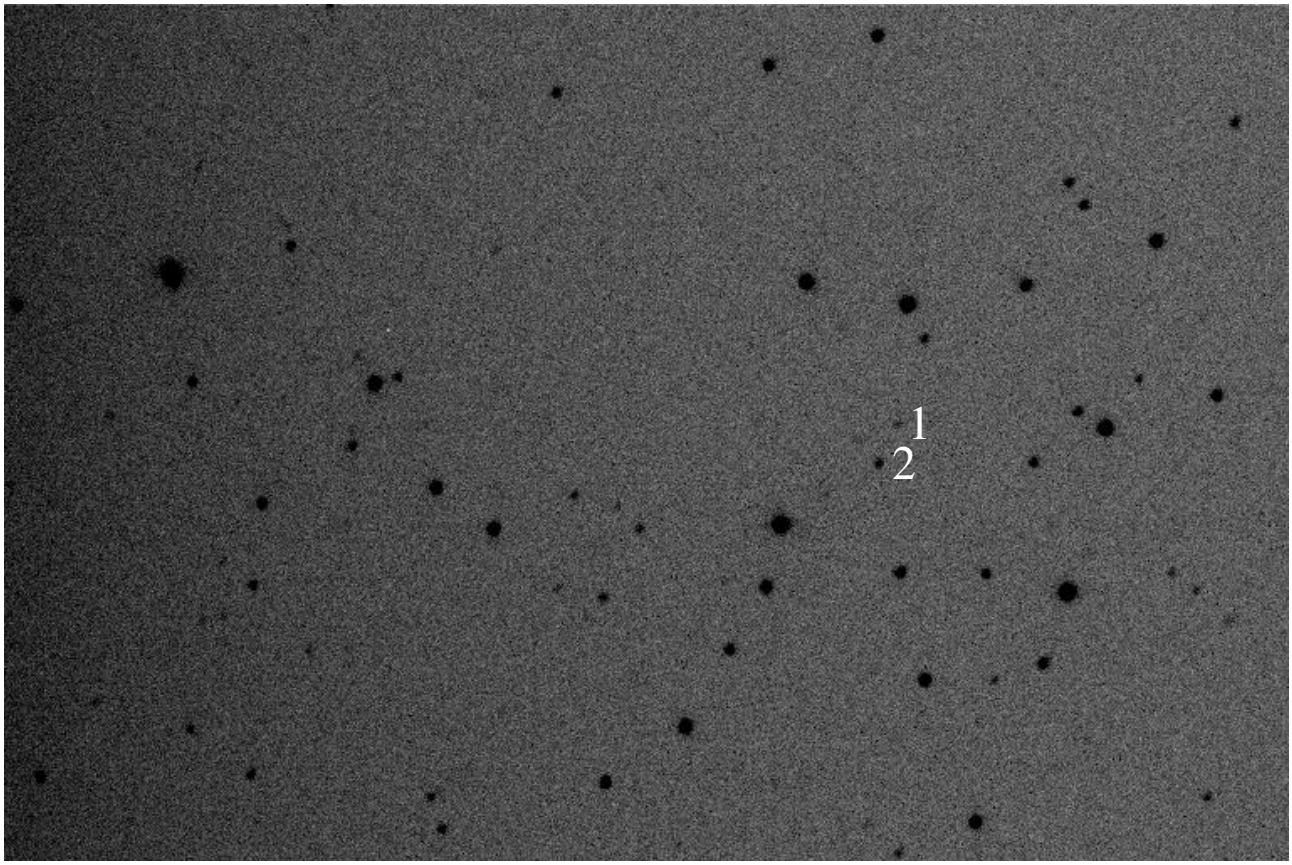
Figure 1



2nd International Olympiad on Astronomy and Astrophysics
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Answer Page
CCD Image 1
Country and Student codes:
.....

Figure 2



Exposure time: 10 sec

2nd International Olympiad on Astronomy and Astrophysics
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Answer Page
Identification
Country and Student codes:
.....

Number	Names or Catalogue number	R.A.	Declination	Magnitude
1	GSC 6258:809	17h 56m 58s	-18°58'21"	13.2
2	GSC 6258:825	17h 56m 59s	-18°58'43"	12.5