



Fayoum University  
Faculty of Science  
Geology Department

Second Year Students  
Final Exam in Survey  
2 hours required

(January 2012)

**Please, Answer All Questions**

**Question No. 1.**

Convert the following Quadrantal Bearing into Whole Circle Bearing :

1- S 46 30 44 w.    2- N 18 45 36 E.    3 - S 74 4 36 E.    4 - N 63 11 54 W.

**Question No. 2.**

Convert the following Whole Circle Bearing into Quadrantal Bearing :

1- 46 30 44    2 - 118 45 36    3 - 264 4 36    4 - 335 11 54

**Question No. 3.**

If the Magnetic Declination at the area of the Faculty of Science was found to be  
4 30 E.

Find the true bearing of the lines : AB – AC - AD and AE if the Magnetic bearing of these lines are :

AB	S34 22 10 E	AC	133 36
AD	N55 46 17 W	AE	333 30 54

**Question No. 4.**

*Define shortly as possible the following topics :*

*Survey types according to the object of study.*

*Azimuth.*

*The local magnetic attraction.*

*The true meridian .*

**Question No. 5.**

*Explain in details the traverse methods of survey .*

*Best wishes*