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- 33511 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:

<p>| | |</p>
<table>
<thead>
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<tbody>
<tr>
<td>AB</td>
<td>S34 22 10 E</td>
</tr>
<tr>
<td>AD</td>
<td>N55 46 17 W</td>
</tr>
<tr>
<td>AC</td>
<td>133 36</td>
</tr>
<tr>
<td>AE</td>
<td>333 30 54</td>
</tr>
</tbody>
</table>

**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