



Manmohan Technical University  
Office of the Controller of Examinations

**Exam Year: Mangsir(Model Question)**

School: SOE	Level: BE	Time: 3 Hours
Program: BEE	Year/Part: I/II	Full Marks: 50
Subject: <b>Surveying and Computer Aided Drawing(EG452EE)</b>		

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.

**GROUP A** (Multiple-Choice Questions in separate paper)

**[10×1=10]**

**GROUP B** (Short Answer Questions - **Attempt Any Eight**)

**[8×2=16]**

1. Define surveying. Explain its importance in Construction works.
2. What is ranging? What are its types.
3. What are the list of correction to be applied to measurement made with a tape?
4. What is two peg test? Why it is performed?
5. What is the purpose of theodolite traversing?
6. Explain how AutoCAD is useful for engineers?
7. What are the uses of Polar, Ortho, Snap and Layers in computer aided drafting?
8. What are Object selection methods in CAD.
9. Draw electrical symbols used in AutoCAD.

**GROUP C** (Long Answer Questions - **Attempt Any Six**)

**[6×4=24]**

1. Explain the fundamental principles on which the art of surveying is based.
2. Draw a neat diagrammatic sketch of a Dumpy Level and describe its different parts.
3. Calculate the mean horizontal angle ABC from the following 2 sets of reading.

Instrument station Target F.L F.R Remarks

A 0° 0' 0" 180° 00' 20"

B C 125° 40' 20" 305° 40' 50"

A 90° 00' 00" 269° 50' 40"

C 215° 40' 30" 35° 40' 40"

4. Give a neat figure of AutoCAD screen at default in brief.
5. Explain different co-ordinate system used in CAD with examples.
6. What are modify commands? How chamfer can be done in AutoCAD.
7. An instrument was set up at A and the angle of elevation of the top of an electric pole BC was 24°36'. The horizontal distance between A and B, the foot of the pole was 600 m. Determine the reduced level of the top of the pole, if the staff reading held on a B.M. (R.L 100.000 m) was 2.532 m, with the telescope in horizontal plane.

\*\*\*\*\* THE END\*\*\*\*\*

