COMPETITIVE ENTRANCE EXAMINATION INTO HTTTC BAMBILI	
<u>CYCLE</u> : 1 <sup>ST</sup> CYCLE LEVEL: 1 <sup>ST</sup> YEAR	Session: 2010
OPTION: TOPOGRAPHY	
DURATION: 3hrs	

## Part one:

One of the components of the file required to obtain a Land Certificate is a survey plan of the plot in question. As a convention, the coordinates of the pillars must be linked to National System of coordinates.

You are a survey student on internship in the Divisional Service of Surveys in your Region. Your supervisor provided you with the following data in figure 1 and table 1. Note that points P14 and P16 are in the National System of coordinates.

You are required to:

- 1. Calculate the coordinates of points B3 (3mrks)
- 2. Determine the plane coordinates of the remaining pillars:B1,B2 and B4(5mrks)
- 3. Calculate the surface area of the plot (2mrks)
- 4. Produce the plan of the plot to scale 1/5000 (2mrks)

