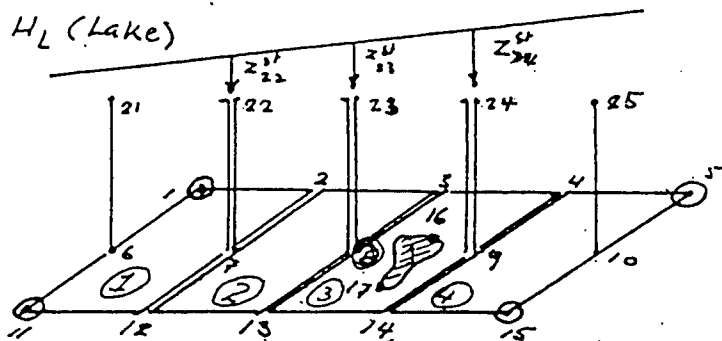


1. 請說明以 Computer Compatible Tape Format 形態比以 Pictorial Form 來分析 Multispectral Scanner 資料之優劣。(10%)
2. Wild A8 與 Zeiss D3 有些不同處, 例如  $b_1, b_2, common$  至之有無等等。請說明於立體製圖時, 在何種情況這些差異會造成何種優缺點?(20%)
3. 若以 stereoscope 及 Parallax Box 連動而繪圖製作地形圖測繪, 該儀器之先天缺憾在何種情況下造成所測繪之平面位置及高程(等高線)有何種現象之誤差?(20%)
4. 請歸納對空中三角精度有那些重要影響因素? 並說明該影響因素對空中三角精度影響之情形。(20%)
5. The following block of 4 models has to be adjusted in HEIGHT (M-3. Statorscope + Lake) (30%)

Given:  $Z_{22}^{st}, t_{22}$      $Z_{23}^{st}, t_{23}$      $Z_{24}^{st}, t_{24}$   
 -  $H_1, H_5, H_{11}, H_{15}$   
 -  $H_L$  (Lake)



- Compute the weights to be given to the different types of observations if model scale 1:50 000

model	Observation Type	Weight
	$\sigma_z$ (model points)	1
	$\sigma_x = \sigma_y$ (projection centre)	-
	$\sigma_{33}$ ( " " )	-
	$\sigma_3$ (lake points)	-

$$\text{Control} \begin{cases} \sigma_{11} \text{ (terrest. height)} & = 10 \text{ cm} \\ \sigma_{H_L} \text{ (Lake height)} & = 15 \text{ cm} \\ \sigma_{2st} \text{ (Statoscope height)} & = 50 \text{ cm} \end{cases}$$


- What is the total number of unknowns?  
parameters :-  
Coordinates :-

- Which points will not be used  
in the generation of R.N.E (M-3-Stat.)

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- Write the observation equations for  
i - model-point 5 in Model ④

ii - projection centre 22 in Model ②

iii - lake-model point 16 in Model ③

iv - Statoscope height at proj. centre 24