

SOLUTION
MAY 2022 - ENDSEM EXAM
T. Y. B. TECH. (CIVIL) (SEMESTER - II)
COURSE NAME: Advanced Surveying
COURSE CODE: CVUA32181B
(PATTERN 2018)

Question No.	Question Description	Marks
Q.1 a	What are the components of GIS?	4
Q.1 b	What is GIS. State various GIS software's and explain how remote sensing and GIS are linked.	6
	OR	
Q.1 b	Explain the advantages and disadvantages of Raster data and Vector data.	6
Q2 a	Define the following terms: True error, Most probable value, Residual Error, Most probable error.	4
Q2 b	What is spherical excess? What are the methods of computing the sides of a spherical triangle? Explain any one method.	6
	OR	
Q.2 b	MPV A= $77^{\circ}14'23''$; B= $49^{\circ}40'39''$; C= $53^{\circ}4'58''$	6
Q.3 a	Explain the terms Crab and Drift.	4
Q.3 b	No. of photos = $34 \times 15 = 510$; exposure interval = 17 sec; flying height = 2500m	6
	OR	
Q.3 b	Derive an expression for displacement due to ground relief.	6