Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES **End Semester Examination, December 2019**

Course: Digital Photogrammetry Program: B. Tech. GIE

Course Code: PEGI 3001

Semester: V Time 03 hrs.

Max. Marks: 100

Instructions:

	SECTION A		
S. No.		Marks	CO
Q 1	Write short notes on accommodation and convergence in binocular vision of stereo photographs	4	CO1
Q 2	List disadvantages of lens or pocket stereoscope.	4	CO1
Q 3	With illustrations explain various stereo satellite acquisition systems.	4	CO2
Q 4	Give a brief account on software requirements for digital photogrammetry.	4	CO4
Q 5	Write brief note with illustration on role of pass point in aero-triangulation.	4	CO3
	SECTION B		
Q 6	With diagram, explain the computation of scale of tilted photograph.	10	CO1
Q 7	Write the parallax equations used in stereo-photogrammetry. With diagram, write the steps of deriving parallax equations.	10	CO3
Q 8	What is collinearity condition in photogrammetry? With illustration derive collinearity equation based on similar triangles principle.	10	CO3
Q 9	Write in details concept and method of absolute orientation.	10	CO4
	OR		
	Discuss in details methods of establishment of ground control points in photogrammetric analysis		CO5
	SECTION-C		
Q 10	Define digital orthophoto / orthoimage and write briefly various steps of digital orthophoto / orthoimage generation. Discuss in details bundle adjustment method of aero-triangulation in photogrammetry	10 + 10	CO6
Q 11	Discuss in details various steps of cross correlation hierarchical method of image matching	20	CO5
	OR		
	Discuss in details modified collinearity equations used for space borne stereo imagery		CO6