

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017		
Pr	ogram: B. Tech. GIE	Semester –
Subject (Course): Digital PhotogrammetryICourse Code: GSEG 311No. of page/s: 2		Max. Marks : 100 Duration: 3 Hrs
<u>Se</u>	<u>ction – A</u>	
Ar	nswer all Questions	(5X4 = 20)
1.	Write with notation modified collinearity equation for space borne stered	o imagery [4]
2.	List the input data required for orthophoto generation using (Hardcopy/Digital)	aerial photographs [4]
3.	Explain with illustration the parallax in stereo photogrammetry	[4]
4.	Write short note on purposes of aerotriangulation in photogrammetry	[4]
5.	List the steps of Digital Photogrammetric analysis work flow	[4]
<u>Section –B</u>		
Answer all Questions $(4x10 = 40)$		
6.	Derive collinearity equation used in photogrammetry based on principle	e of similar triangles [10]

7. Write in details the various requirements of stereoscopic photographs

or

Write short note on pseudo-stereoscopic view methods of aerial photograph

8. Derive object height measuring mathematical relationship with diagram using parallax difference method

[10]

9. Discuss with diagram semi analytical method of aerotriangulation [10]

<u>Section –C</u>

Answer all Questions

10. Discuss in details inputs, outputs and major steps followed for rigorous methods of space resection and intersection in Digital satellite photogrammetry [20]

OR

Discuss in details various steps of space resection by collinearity. [20]

11. Discuss in details digital differential rectification method used in digital orthorectification. 20



(2X20 = 40)