SUBJECT CODE NO: E – 413 FACULTY OF ENGINEERING AND TECHNOLOGY

T.E.(Civil) Examination Nov/Dec 2017 Advanced Surveying (REVISED)

[Max.Marks:40]

Please check whether you have got the right question paper.

N.B

Q.3

- i. Q. No. 1 and Q. No. 5 are compulsory.
- ii. Answer any two questions from section A and section B.
- iii. Figures to right indicate the maximum marks.
- iv. Assume suitable data if necessary, and state the same very clearly.

Section A

- Q.1 Answer the following questions (any three)
 - a) Define Hydrographic surveying.
 - b) Scale and distortion of the vertical photograph?
 - c) Explain:- Drift and Crab
 - d) Define
 - i) Datum scale
 - ii) Average scale.
 - e) Define terrestrial photogrammetry?
- Q.2 What are sounding? Discuss various method of taking sounding?

What is sextant box explains the use of it in surveying?

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Q.4 Two point A and B having elevation of 700m and 350m respectively, above datum, appear on a vertical photograph obtained with a camera of focal length of 300m and flying altitude of 2700m above datum. Their correlated photographic coordinates are as follows.

Point	Photographic Coordinates		
	x(cm)	y(cm)	
	+3.65	+2.59	
3088B308	-2.26	+5.59	

Determine the of the ground line AB.

Section B

0.5	Anguar the following questions (any three)	06
Q.5	Answer the following questions (any three) a) What do you understand by electromagnetic spectrum?	
	a) What do you understand by electromagnetic spectrum?	
	b) Define	
	i) Nadir point	
	ii) Oblique Photograph	
	c) Differentiate between passive remote sensing and active remote sensing.	
	d) Write down main five components of GIS.	
	e) Elaborate the four M's for which geographical information is used.	
		22.4
Q.6	Define and explain photo- interpretation. State and discuss briefly the factors that aid in photo –interpretation.	07
Q.7	Write a detailed note on application of remote sensing.	07
0.8	Explain various types of data structures used in GIS	07