

SUBJECT CODE NO:- P-190
FACULTY OF ENGINEERING AND TECHNOLOGY
T.E.(Civil) Examination May/June 2017
Advanced Surveying
(Revised)

[Time: Two Hours]

[Max.Marks:40]

Please check whether you have got the right question paper.

- N.B
- i) Q.No.1 and Q.No.5 is compulsory. And answer any two question from each section A and B apart from compulsory question
 - ii) Assume suitable data if necessary and state the same very clearly
 - iii) Figure to the right indicate full marks

Section A

- Q.1 Answer the following question (any three) 06
- 1) Scale and distortion of vertical photograph
 - 2) Define terrestrial photogrammetry?
 - 3) Explain shore line surveying ?
 - 4) Use of sounding rods / poles & lead lines
 - 5) Define : 1) datum scale & 2) average scale
- Q.2 Derive an expression for the total number of photographs required (N) to cover the area to be surveyed by considering longitudinal & side overlapping in the case of photogrammetry 07
- Q.3 What is sextant box explain the use of it in surveying? 07
- Q.4 Determine the RLs of the point A and B from the following data 07
- RL of point C= 352 m
RL of point D =416m
Parallax reading of point C=9.96MM
Parallax reading of point D= 10.56 mm
Parallax reading of point A= 11.54 mm
Parallax reading of point B= 8.86mm
Average base =96mm , focal length of camera =200mm

Section -B

- Q.5 Answer the following question (any three) 06
- 1) Write down Aims & objectives of RS?
 - 2) Write down main five component of GIS?
 - 3) What is land cover change detection means, What is its necessity in GIS?
 - 4) Give different applications of GIS
 - 5) Write down clearly difference between ARS and PRS?
- Q.6 How you will utilize the knowledge of GIS in order to survey some area of an engineering interest ? 07
- Q.7 Write down detailed notes on 'Application of RS in civil engineering surveys ? 07
- Q.8 Explain in detail the use of EME (electro –magnetic energy) and its use in Remote sensing Techniques ? 07