



JK LAKSHMIPAT UNIVERSITY, JAIPUR

INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination (Regular/Backlog), April-May 2015

B. Tech in Civil Engineering, Semester IV

Roll No.....

CE 408: Advanced Surveying

Time: 3 hours

Max. Marks: 100

Instructions to students:

1. Do not write anything other than your roll number on question paper.
2. Assume suitable data wherever required and mention it clearly.
3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.

Q.1A	Objective type multiple choice questions (10 questions @ 1 mark)	10
i.	Route survey is used for; a) Alignment, b) Grades, c) Curves, d) All of the above.	
ii.	Distance between P.C. To P.I. is known as; a) T, b) P.C., c) P.T., d) L.	
iii.	Focal Length is measured in a) m, b) cm, c) km, d) None of the above.	
iv.	Parallax is referred as; a) Distance, b) Disturbance, c) Displacement, d) Discharge.	
v.	Find the odd man out; a) Transmitter , b) Receiver, c) Power, d) Shore.	
vi.	Equipment used for sounding is; a) Shore Line, b) Lead Lines, c) Needle, d) None of the above.	
vii.	Determination of watershed bodies is the application of a) Geodetic Surveying, b) Remote Sensing, c) Hydro graphic Surveying, d) Aerial Surveying.	
viii.	In photogrammetric surveying 'p' is related to; a) Height, b) Elevation, c) Station, d) None of the above.	
ix.	Chord joining P.C. to P.T. is a) Normal Chord, b) Sub Chord., c) Long Chord, d) Short Chord.	
x.	Art of collecting information without being in physical contact is; a) Hydro Graphic Surveying, b) Tidal Surveying , c) Remote Sensing, d) None of the above.	
Q.2	Short answer type questions (4 questions @ 2.5 marks)	10
i.	Explain reconnaissance survey?	
ii.	Explain reverse curve briefly?	
iii.	Write note on EDM?	
iv.	Enlist the methods of locating sounding?	
Q.3A	Describe the procedure of conning the vessel by cross rope method?	05
Q.3B	Define route survey & give its importance?	05
Q.4A	Explain the method of sounding by two angles from shore?	05
Q.4B	Explain shore line surveying?	05
Q.5A	Describe the uses of sounding?	05



Q.5B	Explain the classification of remote sensing system?	05
Q.6A	Describe hydro graphic surveying in detail?	05
Q.6B	Calculate height above sea level at which an air craft must fly in order to get scale 1:8000. A camera has focal length of 20cm and average height of elevation is 1500m.	05
OR		
Q.6B	Compare Simple Curve with Compound Curve?	05
Q.7A	Write short note on three point problem?	05
Q.7B	Give the formula for scale, datum scale & average scale & explain its various terms?	05
OR		
Q.7B	Explain the procedure of location by range and one angle from the shore?	05
Q.8A	Describe photogrammetric surveying briefly?	05
Q.8B	Enlist the methods for measurements of distance between two points with examples and explain any one?	05
Q.9A	Explain remote sensing along with a neat labeled sketch?	10
Q.9B	Define sounding and list down various ways to measure sounding? Explain sounding machine in detail?	10
OR		
Q.9B	Enlist and explain the types of route survey?	10

Best of Luck
