

follows:

Distance	Reading at	
	Lower stadia	Upper stadia
200m	1.800	3.800
400m	0.60	4.60

Determine the constants of tacheometer.

Q.6 Two straights AB and BC intersect at a chainage (38+14) chains, the deflection angle being 42° . Calculate all the data necessary for setting out a 5° circular curve by methods of offsets from chord produced with a peg interval of 30m.

Q.7 What are the various errors in theodolite survey? Write the precaution taken to minimise them.

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4th Sem. / Civil / Const Mngt / H.E

Subject : SURVEYING - II

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

Q.1 a) Contour interval.

b) Transiting.

c) Face right.

d) Latitude.

e) Northing.

f) Tacheometry.

g) Contouring.

h) Tangent length.

i) Deflection angle.

j) Mid ordinate.

k) Centrifugal force.

l) Vertical curve.

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m) EDM.

n) GIS.

o) Vertical axis.

p) Axis of plate levels.

q) Stadia rod.

r) Transit rule.

SECTION-B

Note: Short answer type questions. Attempt any ten parts
10x4=40

Q.2 i) What factors effect contour interval?

ii) Explain interpolation of contours.

iii) How will you mark the alignment of a road on a contour map?

iv) What are the various axes of a theodolite?

v) How a line can be prolonged with a theodolite?

vi) Explain theodolite triangulation.

vii) What is the fixed hair method of tacheometry.

viii) What instruments are used in tacheometry.

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ix) How will you set out a simple circular curve by offsets from tangents?

x) What are the methods of providing superelevation.

xi) What is remote sensing?

xii) Explain the working of planimeter.

xiii) Why a vertical curve is provided?

xiv) Write the uses of abney level.

xv) How will you find the height of an object whose base is non-accessible by theodolite.

SECTION-C

Note: Long answer type questions. Attempt any three questions.
3x10=30

Q.3 Explain methods of contouring.

Q.4 Write short notes on :

(a) Total station

(b) G.P.S.

Q.5 To determine the constants of a tacheometer distances 200 and 400m were measured with instrument and the readings on stadia were as

(3)

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