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120744/30744

4th Sem. / Civil / Const. Mgmt.

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) Define horizontal equivalent..

b) What do you understand by face left.

c) What is the meaning of Swinging?

d) Define easting.

e) What are consecutive co-ordinate?

f) What is the value of additive constant?

g) How apex distance is calculated.

h) Write formula for long chart of curve.

i) How deflection angle is calculated .

j) What do you mean by super elevation?

k) What is the functions of abney level?

l) What is the propose of pantograph?

m) Define indirect contouring.

n) What is closing error?

o) Where Tacheometer is used.

p) Define summit curve.

q) What do you understand by remote sensing.

r) Draw the sketch of compound curve.

SECTION-B

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

Q.2 i) Explain the factors effecting contour interval.

ii) List any four characteristics of contours.

iii) What is the temporary adjustment of a theodolite?

iv) How will you find the height of an object whose base is accessible.

v) What angular checks are applied in a traverse?

vi) What is the limit of precesion in theodolite traversing?

vii) Explain the setting out a simple circular curve by offsets from the tangents.

viii) What are the requirements of a transition curve?

ix) Explain GPS.

x) What is the need of vertical curve?

xi) Explain the working of ceylon. Ghat tracer.

xii) What is distomat? How it is used?

xiii) What instruments are used in tacheometry?

xiv) Explain fixed hair method of tacheometry.

xv) Give the uses of total station.

SECTION-C

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

Q.3 Describe the methods of interpolation of contours.

Q.4 Explain the repetition method of measuring horizontal angles.

Q.5 Explain the procedure of setting out a circular curve by deflection angles using a theodolite.

Q.6 Two distances of 10 and 90 meters were accurately measured and intercepts on the staff between outer stadia wires were 0.20m at the former distance and 1.00m at the latter. Calculate tacheometric constants.

Q.7 A 6^0 circular curve is to be set out between two straights having an angle of inter section 130^0 and chainage of point of intersection 1120m. Calculate the followings :-

(i) Radius of circular curve.

(ii) Chainage of Ist and last chainage point.

(iii) Radial offset from tangent at 20 m interval.