

No. of Printed Pages : 4 180744/170744/120744/
Roll No. 030744

**4th Sem / Civil, Constr., Mgmt., Highway Engg.
Subject:- Surveying-II**

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The Least count of the Transit Theodolite is _____

a) 10" b) 40"
c) 30" d) 20"

Q.2 The size of Theodolite is defined according to _____

a) Height of stand
b) Length of telescope
c) Diameter of horizontal circle
d) None of the above

Q.3 The face left position is also called

a) Telescope normal b) Telescope inverted
c) Telescope reversed d) None of the above

Q.4 The radius of one degree curve is

a) 200 m b) 1760m
c) 1719 m d) None of these

Q.5 The first tangent point is also known as _____

a) Point of Tangency b) Point of Curve
c) Point of Start d) Point of Collimation

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- Q.6 The accurate leveling of theodolite is done by using _____

a) Foot screw b) Focussing Screw
c) Vertical circle d) Eye piece

Q.7 Which of the following are vertical Curve.

a) Sag curve b) Summit curve
c) Both and a & b d) None of these

Q.8 An instrument which is used to measure the area of plan of any shape is

a) Distomat b) Planimeter
c) Theodolite d) None of the above

Q.9 When two tangent meet at a point, the point is known as

a) Vertex b) Summit
c) Apex d) None of the above

Q.10 Vertical Curve is considered as _____

a) Circular curve b) Elliptical curve
c) Parabolic curve d) None of these

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Steep ground is represented where contour lines run _____ together.

Q.12 Define Parallax

Q.13 Define line of Collimation.

Q.14 Define horizontal equivalent.

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Q.15 Define Contour Interval.

Q.16 The constant can be made zero.

Q.17 A single curve of a circle connecting two straight is called .

Q.18 The shift of the curve is equal to

Q.19 Define G.P.S.

Q.20 Define Deviation curve.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What is contour? What is the purpose of Contouring?

Q.22 Compare direct method of contouring with indirect methods of contouring.

Q.23 What is temporary adjustment of a Theodolite?
Describe the process.

Q.24 How will you find the height of a object by Theodolite when its base is accessible?

Q.25 Discuss the method of Tachometry.

Q.26 Determine the horizontal and vertical distance when the line of sight its inclined and staff held is vertical.

Q.27 Explain the various errors in tachometric survey.

Q.28 Two tangents intersect at an angle of 150° . if they are to be connected by a 10° curve then,
 Calculate a) Length of the curve b) Apex Distance c)
 Tangent Length.

Q.29 A simple circular curve has a radius of 800m the two tangents intersect at an angle of 120° . The chainage of point of intersection in 1000m. Find a) Tangent length b) Length of the curve c) Chainage of beginning of curve.

Q.30 Explain the repetition method of measuring horizontal angle.

Q.31 Define EDM. Name various types of EDM instruments.

Q.32 What is reverse curve? When and where it is used?

Q.33 List various types of curves. Explain any two of them?

Q.34 Write a short note on Total station

Q.35 Define remote sensing

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain in detail various methods of interpolation of Contours.

Q.37 Explain the procedure for setting out curve by
a) Offsets from the long chord
b) By radial offsets from tangent.

Q.38 Write short note on the following:

a) Total Station b) G.I.S & G.P.S systems