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

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

Time : 3 Hrs. M.M. : 100

SECTION-A

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

Q.1 What is the primary purpose of contouring in surveying? (CO1)
a) To determine elevations
b) To create a topographic map
c) To measure distances
d) To calculate areas

Q.2 Which type of curve is used to connect two straight lines? (CO2)
a) Simple circular curve b) Transition curve
c) Vertical curve d) Compound curve

Q.3 What is the principle of tachometric surveying? (CO4)
a) Measuring angles and sides
b) Measuring distances and elevations
c) Measuring angles and distances
d) Measuring sides and elevations

Q.4 What is the purpose of a theodolite is surveying? (CO4)
a) To measure distances
b) To measures angles
c) To determine elevations
d) To create a topographic map

Q.5 Which modern surveying equipment uses satellite signals to determine positions? (CO6)
a) EDM b) Total Station
c) GPS d) Auto Level

Q.6 What is the contour interval? (CO5)
a) The difference in elevation between consecutive contours
b) The distance between consecutive contours
c) The angle between consecutive contours
d) The area between consecutive contours

Q.7 What is the purpose of a transition curve? (CO4)
a) To connect two straight lines
b) To connect two circular curves
c) To provide a smooth change in direction
d) To provide a sharp change in direction

Q.8 Which type of surveying is used to measure distances and elevations? (CO7)
a) Theodolite surveying b) Tachometric Surveying
c) Levelling d) Contouring

Q.9 What is the principle of EDM? (CO8)
a) Measuring angles and sides
`b) Measuring distances and elevations
c) Measuring angles and distances
d) Measuring sides and elevations

Q.10 Which type of curve is used to connect two circular curves? (CO9)
a) Simple circular curve b) Transition curve
c) Vertical curve d) Compound curve

SECTION-B

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

Q.11 The theodolite is an instrument used to measure _____ and _____ angles. (CO2)

Q.12 In tachometric surveying, the _____ system is used to measure distances. (CO2)

Q.13 The length of a simple circular curve is calculated using the _____ formula. (CO8)

Q.14 The _____ is modern surveying equipment that uses a laser beam to measure distances. (CO1)

Q.15 The purpose of a transition curve is to provide a _____ change in direction. (CO7)

Q.16 The contour interval is the _____ difference in elevation between consecutive contours. (CO8)

Q.17 Define Simple Curve. (CO8)

Q.18 Define Contour Intervals. (CO7)

Q.19 Define Radius of a Curve. (CO7)

Q.20 Define G.P.S. (CO9)

SECTION-C

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

Q.21 Explain the concept of contouring and its importance in surveying. (CO2)

Q.22 Describe the temporary adjustments of a theodolite. (CO2)

Q.23 Write the principles of tachnometric surveying. (CO2)

Q.24 Explain the purpose and elements of a transition Curve. (CO6)

Q25 Describe the working principle of a Total Station. (CO4)

Q.26 Explain the method of contouring by direct measurement and interpolation. (CO5)

Q.27 Describe the process of traversing by included angles and deflection angles. (CO4)

Q.28 Write the applications and limitations of tachometric surveying. (CO5)

Q.29 Explain the design and setting out of a simple circular curve. (CO9)

Q.30 Describe the use of GPS is modern surveying and its advantages. (CO9)

Q.31 Explain the concept of levelling and its importance in surveying. (CO1)

Q.32 Describe the different types of curves used in surveying. (CO6)

Q.33 Write a short note on the EDM. (CO8)

Q.34 Explain the purpose and elements of a vertical curve. (CO6)

Q.35 Describe the working principle of an Auto Level. (CO3)

SECTION-D

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

Q.36 Explain the method of contouring by direct Method, and discuss its advantages and limitations. (CO2)

Q.37 Describe the process of traversing by included angles and deflection angles, method. (CO4)

Q.38 Name various method for selling out of simple curve by linear measurement. Explain any one. (CO5)