

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name -Advanced Surveying

Course Code - DCE401

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Answer all the questions. Each question carry one mark.

9. 1._____ is the most precise instrument designed for the measurement of horizontal and vertical angles.

Mark only one oval.

- Survey chain
- Dumpy level
- Theodolite
- Telescope

10. 2.The transit is the term simply used for _____.

Mark only one oval.

- Telescope
- Theodolite
- Autolevel
- Dumpy level

11. 3.How many types do theodolites classified?

Mark only one oval.

- 2
- 3
- 4
- 5

12. 4.Which of the following is an integral part of the theodolite and is mounted on a spindle known as a horizontal axis?

Mark only one oval.

- Telescope
- Index frame
- Horizontal plane Vernier
- Horizontal circle

13. 5.Horizontal axis is also called _____

Mark only one oval.

- Inner axis
- Outer axis
- Trunnion axis
- Line of sight

14. 6.The vertical circle is a circular graduated arc attached to the _____ axis of the telescope.

Mark only one oval.

- inner axis
- outer axis
- trunnion axis
- line of sight

15. 7.By means of vertical circle clamp and its corresponding _____ the telescope can be set accurately at any desired position in the vertical plane.

Mark only one oval.

- tripod head
- focusing screw
- levelling head
- tangent screw

16. 8.The index frame is _____ shaped frame.

Mark only one oval.

U

V

T

A

17. 9.The value of multiplying constant is generally taken as _____

Mark only one oval.

60

80

90

100

18. 10.Which among the following represents stadia interval factor?

Mark only one oval.

$f + d$

$f - d$

f / i

i / f

19. 11. What is the formula for finding vertical distance if the staff is held vertical and line of sight is inclined?

Mark only one oval.

- $V = (K S \sin 2\theta) + C \sin \theta$
- $V = (K S \cos 2\theta) + C \cos \theta$
- $V = (C S \sin 2\theta) + K \cos \theta$
- $V = K S \sin 2\theta + C \cos \theta$

20. 12. Calculate the value of K and C, if the measurements are taken between two points of 50 and 130 distant apart and the stadia readings will be 0.024, 0.824 respectively.

Mark only one oval.

- 0, 47.6
- 47.6, 100
- 100, 47.6
- 47.6, 0

21. 13. The following are the staff readings given when the staff is held normal. The line of sight of instrument is placed at an angle $+30'24''$. It being an anallactic lens, find the horizontal distance between staff and instrument station. Staff readings – 2.145 m, 1.925 m, 1.464 m.

Mark only one oval.

- 62.082 m
- 58.082 m
- 60.082 m
- 68.082 m

22. 14.To run a straight line between two points, when both ends are inter visible. We establish intermediate points through _____

Mark only one oval.

- line of sight
 balancing
 using random line
 back sight

23. 15.A curve of varying radius introduced between two branches of a compound curve is known as.

Mark only one oval.

- Mean Curve
 Common Curve
 Base Curve
 Transition Curve

24. 16.Error due to the line of collimation not being perpendicular to the horizontal axis comes under _____ error.

Mark only one oval.

- personal
 natural
 instrumental
 personal and natural

25. 17.What is the least count of a transit theodolite?

Mark only one oval.

- 15 seconds
- 20 minute
- 20 seconds
- 30 minute

26. 18.Parallax comes under _____ error.

Mark only one oval.

- personal
- natural
- instrumental
- personal and natural

27. 19.Unequal settlement of tripod comes under ____ source of error.

Mark only one oval.

- personal
- natural
- instrumental
- personal and natural

28. 20. Different types of EDM's are obtained on the basis of _____

Mark only one oval.

- Wave length
- Carrier wave
- Frequency
- Time period

29. 21. Which among the following EDM instruments is having more range?

Mark only one oval.

- Infra-red instruments
- Visible light instruments
- Microwave instruments
- Gamma ray instruments

30. 22. Total Station is used for

Mark only one oval.

- Remote object height determination
- Establishing horizontal control
- Establishing vertical control
- All of the answers

31. 23.The frequency range used in visible light instruments is _____

Mark only one oval.

- 5×10^{11} Hz
- 5×10^8 Hz
- 5×10^{10} Hz
- 5×10^{14} Hz

32. 24.Which of the following indicates the formula for converting slope distance to horizontal distance?

Mark only one oval.

- $S = H (\sin z)$
- $H = S \sin z$
- $H \cos z = S$
- $H = S (\sin z)$

33. 25.Which of the following indicates the correct set of the combination of total station?

Mark only one oval.

- Theodolite, compass
- Theodolite, EDM
- Electronic theodolite, EDM
- EDM, GPS

34. 26.The data obtained from total station can be used in which among the following software directly?

Mark only one oval.

- Primavera
- STAAD PRO
- Autodesk Revit
- Surfer

35. 27.Calculation the elevation difference if the vertical distance is 14.89m, instrument height is 9.2m, ground is at 2.8m.

Mark only one oval.

- 21.29 m
- 12.29 m
- 21.92 m
- 41.29 m

36. 28.Find the vertical distance if the value of slope distance can be given as 12.98 and the angle is $1^{\circ}23'$

Mark only one oval.

- 12.97m
- 21.97m
- 12.79m
- Option 4

37. 29. Find the elevation of ground beneath the reflector, if the known elevation of instrument is 12.76m, slope distance = 3.76m, angle is about $3^{\circ} 43'$, instrument height = 2.93m, ground is at 0.987 m.

Mark only one oval.

- 18.54m
- 81.54m
- 18.45m
- 18.97m

38. 30. Which process can be used for setting a small curve?

Mark only one oval.

- Offsets from radial offsets
- Offsets from perpendicular tangents
- Bisection of arcs
- Offsets from chords

39. 31. Which of the following describes the right usage of tangent method for offsets?

Mark only one oval.

- Smaller radius
- Larger radius
- Large deflection angle
- More tangent length

40. 32.The points that are set by using the method of tangents will lie on _____

Mark only one oval.

- Tangent
- Chord
- Arc of circle
- Parabola

41. 33.Central position of curve can be set by _____

Mark only one oval.

- Tangent
- Chord
- Apex
- Secan

42. 34.Which of the following represents the correct set of classification in the method of setting offset by tangent method?

Mark only one oval.

- Radial, perpendicular
- Radial, parallel
- Parallel, perpendicular
- Parallel, horizontal

43. 35. Find the perpendicular offset by using the general method, with radius of the curvature being 70.98m and the offset distance about 9m.

Mark only one oval.

- 0.57m
- 0.57m
- 7.05m
- 7.05m

44. 36. An Ideal Vertical curve to join two gradients is

Mark only one oval.

- Cubic
- Parabolic
- Elliptical
- Hyperbolic

45. 37. Which of the following doesn't indicate the linear method of setting out the curve?

Mark only one oval.

- By offsets from chords produced
- By offsets from the tangents
- By curves
- By offsets of long chords

46. 38. Find the value of length of the curve if the degree of curve is taken at 20m arc with an angle $42^{\circ}12'$

Mark only one oval.

- 24.9m
 24.2m
 42.2 m
 49.2m

47. 39. The lens used in aerial photogrammetry is having a maximum coverage capacity of _____ (in angles)

Mark only one oval.

- 930
 630
 530
 980

48. 40. Which one of the following is not a transition curve

Mark only one oval.

- Cubic Spiral
 Cubic Parabola
 Lemniscate
 Sag Curve

49. 41. Which among the following surveying methods is meant to be having high precision?

Mark only one oval.

- Aerial photogrammetry
- Terrestrial photogrammetry
- Theodolite surveying
- Traverse surveying

50. 42. If the radius of a circular curve is 100 m and deflection angle is 90° , then the length of tangent will be.

Mark only one oval.

- 141.4 m
- 70.7 m
- 100 m
- 250 m

51. 43. Perspective projection is produced from _____

Mark only one oval.

- Straight lines radiating a common point
- Straight lines radiating different points
- Parallel lines radiating a common point
- Perpendicular lines radiating a common point

52. 44.Remote sensing uses which of the following waves in its procedure?

Mark only one oval.

- Electric field
- Sonar waves
- Gamma- rays
- Electro-magnetic waves

53. 45.In visible region, the blue light is having a wave length range of _____

Mark only one oval.

- 0.42-0.52 micrometer
- 0.24-0.52 micrometer
- 0.42-0.92 micrometer
- 0.22-0.32 micrometer

54. 46.Which of the following can act as an example for air-borne platform?

Mark only one oval.

- LISS-III
- Dakota
- MOS
- LISS-II

55. 47.Polar orbiting satellites are generally placed at an altitude range of _____

Mark only one oval.

- 7-15km
- 7000-15000km
- 700-1500km
- 70-150km

56. 48.After setting up the instrument first thing done by the surveyor is _____

Mark only one oval.

- releasing all clamps
- levelling instrument
- turning plates
- clamping the plates

57. 49.If one of the vernier is at 0° then another vernier reading shows / also shows _____

Mark only one oval.

- 90°
- 0°
- 180°
- 45°

58. 50.The line joining the optical center of object glass to the center of the eye-piece of telescope is

Mark only one oval.

- Axis of Telescope
- Line of Sight
- Line of Collimation
- Axis of bubble tube

59. 51.Adjustment of focusing screw of a theodolite enables getting

Mark only one oval.

- Clear Image of object
- Clear Image of Cross-Hairs
- Clear Image of Diaphragm
- Clear Image of stadia Line

60. 52.In first method of taking single set, after keeping the telescope normal throughout we measure the angle clockwise by 6 repetitions. We obtain the first value of the angle by dividing the final reading by _____

Mark only one oval.

- 2
- 3
- 4
- 6

61. 53.Which of the below is used up to a range of 100km?

Mark only one oval.

- Infrared
- Microwave
- Visible range
- Ultra-violet

62. 54.A total station is a combination of:

Mark only one oval.

- EDM and Theodolite
- Compass and EDM
- Electronic Theodolite and EDM
- EDM and electronic Compass

63. 55.Which unit in total station processes data collected?

Mark only one oval.

- Data collector
- EDM
- Storage system
- Microprocessor

64. 56.Which is the latest development in a total station?

Mark only one oval.

- High resolution
- High accuracy
- Robotic
- Automatic

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- Automatic

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Mark only one oval.

- High resolution
- High accuracy
- Robotic
- Automatic

67. 59.How many types of EDM are there based on the reflector type?

Mark only one oval.

3

5

4

2

68. 60.What is the range of medium range EDM?

Mark only one oval.

<5kms

15-25kms

5-25kms

>25kms

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