

102/2016

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. The art of determining and representing the relative heights or elevations of different points on the surface of the earth :

(A) levelling	(B) surveying
(C) traversing	(D) balancing

2. Which scale is used to read three dimensions?

(A) Plane scale	(B) Diagonal scale
(C) Comparative scale	(D) Full scale

3. The main principle of surveying is two work form :

(A) lower level to higher level	(B) higher level to lower level
(C) whole to part	(D) part to whole

4. The longest chain line in chain surveying is called :

(A) Base line	(B) Check line
(C) Tie line	(D) Traverse line

5. _____ tape is used for the work of the highest precession.

(A) Cloth tape	(B) Metallic tape
(C) Linen tape	(D) Invar tape

6. _____ is used for enlargement and reduction of plans.

(A) Planimeter	(B) Clinometer
(C) Pentagraph	(D) Lithograph

7. In Surveyor's compass zero degree is marked at _____ end.

(A) North	(B) South
(C) North and South	(D) East and West

8. In an optical square the two mirrors are placed at an angle of :

(A) 25°	(B) 35°
(C) 45°	(D) 55°

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9. The inclination of the magnetic needle with horizontal is known as :
- (A) Dip (B) Declination
(C) Closing error (D) Sighting error
10. Direct ranging is possible only when the end points are :
- (A) more than 200 metres (B) mutually intervisible
(C) in hilly areas (D) in valley portion
11. The movable parts that are cleaned and lubricated comes under the category of :
- (A) field work (B) office work
(C) designing work (D) care and adjustment of instrument
12. The lines passing through points at same declination at a given time are :
- (A) Isogonic lines (B) Agonic lines
(C) True lines (D) Magnetic lines
13. The horizontal angle which the magnetic meridian makes with the true or geographical meridian is known as :
- (A) Dip (B) Magnetic declination
(C) True bearing (D) Magnetic bearing
14. GTS stands for :
- (A) Great Triangle Survey (B) Great Trigonometrical Survey
(C) Great Traverse Survey (D) Great Tangential Survey
15. In a series of contour lines, if the higher values are inside the bend or loop it represents a :
- (A) ridge line (B) valley line
(C) vertical cliff (D) over hanging cliff
16. A long offset is to be measured more than :
- (A) 5 m (B) 10 m
(C) 15 m (D) 20 m
17. Obstacle for both vision and chaining is occurred when it crosses a :
- (A) Building (B) River
(C) Pond (D) Sill

18. A series of connected survey lines of known length and directions are called :
- (A) Plane surveying (B) Geodetic surveying
(C) Traverse surveying (D) Levelling
19. When two lines meet at a point, the sum of both interior and exterior angles is equal to :
- (A) 90° (B) 180°
(C) 270° (D) 360°
20. Brass handle is connected to the link by :
- (A) Flexible joint (B) Ball and socket joint
(C) Butt joint (D) Swivel joint
21. The variation of magnetic declination occurred due to magnetic storms and earthquakes is :
- (A) Annual variation (B) Irregular variation
(C) Secular variation (D) Diurnal variation
22. Plane table is centered over a station with the help of :
- (A) Spirit level (B) Alidade
(C) Trough compass (D) Plumbing fork with plumb-bob
23. Which method is used for locating inaccessible objects?
- (A) Radiation (B) Intersection
(C) Resection (D) Traversing
24. Bessel's solution of three point problem is also known as :
- (A) Trial and error method (B) Traversing method
(C) Radiation method (D) Graphical method
25. Which circle passes through the three ground points, in three point problem?
- (A) Concentric circle (B) Eccentric circle
(C) Great circle (D) Circle
26. _____ is a point denoting shifting of the level.
- (A) Back sight (B) Station point
(C) Intermediate point (D) Change point

27. The least count of a metric levelling staff :
- (A) 0.5 mm (B) 0.05 mm
(C) 5 mm (D) 15 mm
28. In a simple levelling the back sight taken at 'A' of RL 100.00 is 2.350 and the foresight taken at 'C' is 0.420 then RL of 'C' is :
- (A) 102.350 (B) 103.350
(C) 101.930 (D) 100.00
29. In working profile of a longitudinal section, the depth of cuttings are written in :
- (A) Red (B) Green
(C) Blue (D) Black
30. While plotting the cross-sections :
- (A) vertical scale is enlarged 10 times the horizontal scale
(B) vertical scale is reduced by one-tenth of the horizontal scale
(C) both the vertical and horizontal scales are kept equal
(D) vertical is made double the horizontal scale
31. Find the curvature correction for a distance of 800m :
- (A) 0.05 m (B) 0.005 m
(C) 0.05 km (D) 0.005 km
32. Boning rods and sight rails are used for :
- (A) the road alignment
(B) setting out gradient
(C) selecting the most economical and suitable site for engineering works
(D) contouring by tacheometric method
33. Contour interval is :
- (A) the horizontal distance between two consecutive contours
(B) the least horizontal distance between two consecutive contours
(C) the distance between two consecutive contours along the grade contour
(D) the vertical distance between two consecutive contours

34. For directly applying Simpson's rule the number of ordinates must be :
- (A) Odd (B) Even
(C) Odd or even (D) None of the above
35. It is more difficult to obtain good results while measuring horizontal distance by stepping :
- (A) down hill (B) uphill
(C) low undulating (D) in plane areas
36. A clinometer is used for :
- (A) Angle of slope (B) Line of collimation
(C) To setout right angles (D) Natural features
37. Plani meter is used for measuring :
- (A) Volume (B) Area
(C) Slope of angle (D) Contour gradient
38. In metric levelling staff, number of subdivisions per metre length are :
- (A) 100 (B) 200
(C) 500 (D) 1000
39. The bearing of lines OA and OB are $26^{\circ} 10'$ and $332^{\circ} 18'$ the value of inculd angle BOA is :
- (A) $316^{\circ} 10'$ (B) $158^{\circ} 28'$
(C) $358^{\circ} 28'$ (D) $53^{\circ} 52'$
40. Bearing of AB is $75^{\circ} 10'$ and bearing of BC is $100^{\circ} 20'$ the angle ABC is :
- (A) $175^{\circ} 30'$ (B) 154°
(C) $154^{\circ} 50'$ (D) $255^{\circ} 10'$
41. A bearing of a line is also known as :
- (A) True bearing (B) Azimuth
(C) Magnetic bearing (D) Reduced bearing
42. The operation of making the algebraic sum of latitudes and departures of a closed traverse equal to zero is known as :
- (A) Balancing the sights (B) Balancing the latitudes
(C) Balancing the departures (D) Balancing the traverse

43. The ends of a given line are not intervisible from any intermediate points, in such a case the method adopted to establish intermediate point is :
- (A) Random line method (B) Lining in
(C) Balancing in (D) Double sighting
44. Rotating the telescope of a theodolite in horizontal plane about its vertical axis is called :
- (A) Plunging (B) Swinging
(C) Transiting (D) Reversing
45. The imaginary line joining the centre of the eye piece and optical centre of the objective in a theodolite is known as :
- (A) Horizontal axis (B) Vertical axis
(C) Axis of altitude level (D) Axis of the telescope
46. Weight of one bag cement is :
- (A) 200 kg (B) 150 kg
(C) 100 kg (D) 50 kg
47. In _____ type of bond stretchers and headers are arranged in alternate course.
- (A) Stretcher bond (B) Header bond
(C) English bond (D) Flemish bond
48. The piece of a brick cut along the centre of width in such a way that its length is equal to that of full brick is called :
- (A) Half brick (B) Queen closer
(C) King closer (D) Bevelled closer
49. A covering of concrete placed on the exposed top of an external wall, is known as :
- (A) Cornice (B) Frieze
(C) Lintel (D) Coping
50. The construction in the storage headwork to discharge surplus water to down stream side safety is called :
- (A) Sluice (B) Barrage
(C) Head regulator (D) Spillway

51. The sum of interior angles of closed traverse is :
- (A) $(2n - 4) 90^\circ$ (B) $(2n + 4) 90^\circ$
 (C) $(n - 4) 90^\circ$ (D) $(n + 4) 90^\circ$
52. Tick the correct answer for the following :
- (A) 1km = 100 metre (B) 1km = 1000 metre
 (C) 1km = 1000 cm (D) 1km = 100 cm
53. In any polygon the sum of the deflection angle will be equal to :
- (A) 90° (B) 180°
 (C) 270° (D) 360°
54. If angular measurements of a traverse are more precise than its linear measurements, balancing of the traverse is done by :
- (A) Bowditch's rule (B) Transit rule
 (C) Empirical rule (D) Random rule
55. The latitude of any traverse line is obtained by multiplying its length by :
- (A) tangent of its reduced bearing (B) sine of its reduced bearing
 (C) cosine of its reduced bearing (D) cosecant of its reduced bearing
56. An engineers chain is _____ long.
- (A) 100 ft (B) 33 ft
 (C) 16 ft (D) 66 ft
57. Least count of theodolite is _____ seconds.
- (A) 20 (B) 40
 (C) 10 (D) 30
58. _____ type of errors arises due to imperfect focussing.
- (A) Collimation (B) Eccentricity
 (C) Paralax (D) Hypotenuse allowance
59. The angle subtended by the long chord of a simple curve at its centre is equal to :
- (A) Deflection angle (B) Intersection angle
 (C) 2 times deflection angle (D) $\frac{1}{2}$ times deflection angle

60. $\frac{\pi R\phi}{180^\circ}$ is :
- (A) Tangent distance (B) Apex distance
(C) Length of curve (D) Versine of curve
61. Over turning of vehicles on a curve can be avoided by using :
- (A) Transition curve (B) Vertical curve
(C) Compound curve (D) Mean curve
62. _____ is the time in days between the first watering for the preparation of land for sowing and its last watering before harvest.
- (A) crop period (B) base period
(C) period of growth (D) maximum flood discharge
63. Sea-saw is an example of :
- (A) First order lever (B) Second order lever
(C) Third order lever (D) Fourth order lever
64. The ability of material to deform without breaking is called :
- (A) ductility (B) malleability
(C) plasticity (D) britility
65. $\frac{\text{Lateral strain}}{\text{Lencer strain}} =$
- (A) Poison's ratio (B) Velocity ratio
(C) Efficiency ratio (D) Mechanical advantage
66. The sidereal day is divided into :
- (A) 23h (B) 24h
(C) 36h (D) 12h
67. ABCD is a square plot of land. If the bearing of AB is $52^\circ 45'$, the bearing of CD is :
- (A) $142^\circ 45'$ (B) $52^\circ 45'$
(C) $232^\circ 45'$ (D) $322^\circ 45'$

68. CPU stands for :
- (A) Chief Performance Unit (B) Central Processing Unit
(C) Chief Processing Unit (D) Central Performance Unit
69. Maximise, minimise and close buttons are present in the :
- (A) Windows (B) Menu bar
(C) Title bar (D) Control box
70. Which of the following is a volatile memory?
- (A) ROM (B) P-ROM
(C) RAM (D) EP-ROM
71. Cut, copy and paste are the part of which of the menu :
- (A) View (B) Favourites
(C) Format (D) Edit
72. The working principle of optical square is :
- (A) Refraction (B) Reflection
(C) Double refraction (D) Double reflection
73. The back sight reading on a bench mark of 'RL' 200.00m is 2.685 and fore sight reading on 'B' is 1.305m the RL of B is :
- (A) 202.685m (B) 201.380m
(C) 203.990m (D) 201.305m
74. For preparation of a contour map for a route survey :
- (A) Method of squares is used (B) Method of s-trace contour is used
(C) Method of radial line is used (D) Method of cross section is used
75. In quadrantal bearing system, back bearing of a line may be obtained from its forward bearing by :
- (A) Adding 180° , if the given bearing is less than 180°
(B) Changing the cardinal points, i.e. substituting 'N' for 'S' and 'E' for 'W' and vice-versa
(C) Adding 90°
(D) Subtracting 180° , if the given bearing is greater than 180°

76. The hand signal "Both hands above head and then brought down" is :
(A) Move slowly to the right (B) Move slowly to the left
(C) Fix (D) Correct
77. During the reconnaissance the surveyor should prepare :
(A) Site plan (B) Key plan
(C) Field note (D) Reference points on ground
78. Bevelled edged of the alidade is :
(A) Fiducial edge (B) Ram-Sadan edge
(C) Lining edge (D) Sighting edge
79. The Ceylon ghatt tracer is used for :
(A) Tracing points (B) Measuring the depth of water
(C) Taking bearing (D) Setting out a grade contour
80. The process of levelling in which the elevations of points are computed from the vertical angles and horizontal distances measured in the field :
(A) Simple levelling (B) Fly levelling
(C) Trigonometrical levelling (D) Check levelling
81. Among the following who was not a leader of Salt Satyagraha held at Kozhikkode :
(A) Manjeri Rama Iyer (B) P. Krishna Pillai
(C) K. Kelappan (D) T.R. Krishna Swami Iyer
82. Which was not a work of Makthi Thangal?
(A) Paropakari (B) Sathyaprakasham
(C) Thurki Samacharam (D) None of these
83. 'Vaala Seva Samithi' was established at :
(A) Thevara (B) Vaikom
(C) Paravur (D) Anapuzha
84. The novel 'Sarada' is written by :
(A) Ambadi Narayana Poduval (B) Chanthu Menon
(C) Bhavatrattam Nambutiripad (D) None of these

85. Who among the following got Bharat Ratna before becoming the President of India?
- (A) Dr. Zakir Hussain (B) V.V. Giri
(C) Fakhruddin Ali Ahmed (D) Dr. Rajendra Prasad
86. Among the following who was not chairperson of National Commission for women?
- (A) Jayanthi Patnaik (B) Poormima Advani
(C) Meira Kumar (D) Girija Vyas
87. Which constitutional amendment raised the number of Loksabha seats to 545?
- (A) 16th (1963) (B) 30th (1973)
(C) 31st (1973) (D) 42th (1976)
88. 'Narakara Vadham' was an attakkatha written by :
- (A) Karthikathirunal Rama Varma (B) Kottayam Raja
(C) Aswathi Thirunal Ilaya Thampuram (D) Irayimman Thampi
89. 'Vaidyajeewanam' is a work written on Ayurveda by :
- (A) Pachu Muthath (B) Itty Achuthan
(C) Appu Bhatt (D) Vallathol Narayana Menon
90. 'Neelakanta Theertha Padar' was a the disciple of :
- (A) Sahodaran Ayyappan (B) Brahmananda Sivayogi
(C) Chattampi Swamikal (D) Ayyankali
91. 'Mitavadi' was founded by :
- (A) C. Krishnan (B) T.K. Madhavan
(C) K.P. Kesava Menon (D) Moorkoth Kumaran
92. Among the following who was not an associate of Ayyankali :
- (A) Thomas Vadhyar (B) Paraji Tharakan
(C) Kavalam Charathan Solomon (D) Yesudasan

93. 'Kishore Sakthi Yojana' is aimed to :
- (A) impart training for employment of rural women
(B) improve the nutrition and health of teenage girls
(C) holistic empowerment of women
(D) enhancing the opportunities of female education
94. The dance form 'Ramanattam' was invented by :
- (A) Kottarakkara Thampuram (B) Unnayi Warier
(C) Ambadi Narayana Poduval (D) Kottayam Raja
95. The father of 'Panchayati Raj' is :
- (A) Gandhiji (B) Rajiv Gandhi
(C) Asoka Mehta (D) Balvant Roy
96. The Minister from a Malabar in the Rajagopalachari cabinet of 1937 was :
- (A) P. Ramunni Menon (B) K. Kelappan
(C) Kongattil Raman Menon (D) U. Gopala Menon
97. The First Kerala State conference of congress held at Ottappalam in 1921 was chaired by :
- (A) Annie Basant (B) T. Prakasham
(C) Sarojini Naidu (D) K. Kelappan
98. Who is known as 'Dharmaraja'?
- (A) Ayilyam Tirunal (B) Indukotha Varma
(C) Utram Tirunal Balarama (D) Kartika Tirunal Rama Varma
99. 'Deepika' was the publication of :
- (A) Vakkom Moulavi (B) C. Krishnan
(C) Moyyarath Sankaran (D) K. Kelappan
100. In which session of the congress S.K. Pottekkatt attended from Kerala?
- (A) Haripura (B) Nagpur
(C) Tripuri (D) Bombay