Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	Length of	f gunters chain is :			
	(A)	20 meter	(B)	66 feet	
	(C)	16 feet	(D)	100 feet	
2.	One hecta	ares is equal to :			
	(A)	40.46 M ²	(B)	100 M ²	
	(C)	10000 M ²	(D)	10002	
3.	Total num	nber of links in 20 M chain is :			
	(A)	100	(B)	150	
	(C)	66	(D)	33	
4.	Area of A	0 trimmed size drawing sheet is —		—— M².	
	(A)	$1.25~{ m M}^2$	(B)	1 M ²	
	(C)	$1.5~\mathrm{M}^2$	(D)	$0.75~\mathrm{M}^2$	
5.	Angle of d	lip at pole is degre	ee.		
	(A)	30°	(B)	60°	1
	(C)	90°	(D)	120°	
6.	The area	enclosed in an irregular curve can l	oe formed	out by:	
	(A)	Planimeter	(B)	Pentagraph	
	(C)	Clinometer	(D)	Prism square	
7.	The quad	rantal bearing of a line is S40° W; i	ts whole c	rircle bearing is :	
	(A)	40°	(B)	400°	
	(C)	220°	(D)	140°	
8.	In —	field book is eliminated.			
	(A)	Chain surveying	(B)	Plane table surveying	
	(C)	Compass surveying	(D)	Theodolite surveying	
٨		9			

	C	correction for leveling is always:		
9.	(A)	Additive	(B)	Subtractive
	(A)	Either additive or subtractive	(D)	None of these
	(0)	Elither additive of adoptions	(-)	
10.	-	is a chord between two succ	essive reg	ular stations on a curve.
	(A)	Long chord	(B)	Sub chord
	(C)	Normal chord	(D)	Short chord
11.	If the two	tangents are produced in a simpl	e curve t	hey will meet at a point, the point is
	(A)	Vertex	(B)	Appex
	(C)	Point of tangency	(D)	Curve tangent point
12.	The horizon	ontal distance between two consecu	tive conto	ur line is known as:
	(A)	Horizontal interval	(B)	Horizontal equivalent
	(C)	Horizontal scale	(D)	Contour interval
10	0.54 in ab	is anyal to:		
13.	(A)	is equal to : 64.516 mm	(B)	60451 mm
		6.451 cm	(D)	64.516 cm
	(C)			
14.	In a trian		and the	ir included angle 'C' are given then its
	(A)	⅓ ab cos C	(B)	½ ab tan C
	(C)	½ ab sin C	(D)	ab sin C
15.	If the rad	ius of a half circle is given by r the	n its peri	meter will be:
	(A)	πr	(B)	$2\pi r$
	(C)	$\pi(r+2)$	(D)	$2(\pi + r)$
16.	The heigh	at of a chimney is 'h' meter and the levation ' ϕ ' will be :	observer	is located at a distance of 's' meter. Its
	(A)	$\tan^{-1}(s/h)$	(B)	$\sin^{-1}(s/h)$

(C)

 $\tan^{-1}(h/s)$

(D)

 $\sin^{-1}(h/s)$

17.	If the per	imeter of circle is 50 cm, its are	a will be :	
	(A)	189.04 cm ²	(B)	199.04 cm ²
	(C)	209.04 cm ²	(D)	50 cm ²
18.		h, breadth, height of a rectang surface area will be :	ular prism ar	e 20 cm, 15 cm and 10 cm respectively.
	(A)	$1000 \ { m cm}^2$	(B)	$1200~\mathrm{cm^2}$
	(C)	1100 cm ²	(D)	1300 cm ²
19.	5/12 + 12/	7 is equal to :		
	(A)	0.213095	(B)	21.3095
	(C)	0.0213095	(D)	2.13095
20.	A cubical	tanks is filled with water, if eac	ch side of a cu	be is 1 meter, weight of water will be:
	, (A)	1026 kg	(B)	10 tonne
	(C)	960 kg	(D)	1 tonne
21.	For a can	tilever beam :		
	(A)	Both end supported		
	(B)	One end fixed and other end f	ree	
	(C)	Both end fixed		
	(D)	One end fixed and other end o	verhanging	
22.	In AutoCa	AD design centre is :		
-	(A)	A drop down menu	(B)	A right click menu
	(C)	A palette	(D)	A dialog
23.	While ran	ging a line, the code of indication	on of left arm	extend indicates :
	(A)	Continue to move left	(B)	Continue to move right
	(C)	Fix	(D)	Correct
24.		is an instrument used fo	or enlarging o	or reducing maps.
	(A)	Ghat tracer	(B)	Clinometer
	(C)	Planimeter	(D)	Pentagraph
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25.	The produ	ct of mass and velocity is:		
	(A)	Momentum .	(B)	Moment
	(C)	Velocity	(D)	Torque
26.	The numb	per of verticals posts in a Ki	ng post truss is :	
	(A)	Nil	(B)	Three
	(C)	Two	(D)	One
27.	The staff	reading taken on a bench n	nark or a point of	known reduced level is:
	(A)	Inter sight	(B)	Back sight
	(C)	Reduced level	(D)	Fore sight
28.	One mile	is equal to :		
	(A)	1016 Km	(B)	0.609 Km
	(C)	1.609 Km	(D)	1.016 Km
29.	One Joule	e is equal to :		
	(A)	$10^7\mathrm{erg}$	(B)	$10^5\mathrm{erg}$
	(C)	$10^3\mathrm{erg}$	(D)	$10^{2}\mathrm{erg}$
30.	−40°C is €	equal to :		
	(A)	-80°F	(B)	40°F
	(C)	80°F	(D)	-40°F
31.	One radia	an is equal to ————	— degree.	
	(A)	π×180	(B)	$180/\pi$
	(C)	180	(D)	$\pi/180$
32.	A regular	polygon having eight sides	is called:	The state of the state of
	(A)	Pentagon	(B)	Hexagon
	(C)	Heptagon	(D)	Octagon
33.	The ratio	of 15 cm : 2 meters is equa	l to:	12.1
	(A)	3:40	(B)	1:40
	(C)	40:3	(D)	40:1
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34.	The value	of π is:		
	(A)	21/7	(B)	7/22
	(C)	22/7	(D)	27/7
35.	Mass is a	——— quantity.		
	(A)	Vector	(B)	Scalar
	(C)	Fixed	(D)	Variable
36.	One stand	lard measurement $190 \times 90 \times 90 \times m$	m is:	
	(A)	Standard size of brick	(B)	Standard size of rubble
	(C)	Standard size of late rite	. (D)	Standard size of ashlars
37.	Foundation	on of a building consists of R.C.C sla	b coverin	ng the entire area in plan is called :
	(A)	Grillage foundation	(B)	Well foundation
	. (C)	Pile foundation	(D)	Raft foundation
38.	The botto	m surface of a door or a window oper	ning is k	nown as :
	(A)	Plinth	(B)	Sill
	(C)	Lintel	(D)	Step
39.		——— line is used for dimension lin	ie.	
	(A)	Continuous thick	(B)	Continuous thin Zigzag
	(C)	Continuous thin	(D)	None of these
40.	Scale 1:x	designated as :		
	(A)	Reduced scale	(B)	Full size
	(C)	Enlarged scale	(D)	None of these
41.	On a diag	onal scale, it is possible to measure		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(A)	One dimension	(B)	Three dimensions
	(C)	Two dimensions	(D)	Four dimensions
42.	Accidenta	l errors are :		
	(A)	Natural error	(B)	Instrumental error
	(C)	Cumulative error	(D)	Compensating error
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43.	Error due	to sag in chaining is:			
	(A)	Cumulative and positive	(B)	Cumulative and neg	ative
	(C)	Compensative and positive	(D)	Compensative and r	egative
44.	A declina	tion of 2° east means :			
	(A)	The magnetic north is 2° west of	of true north	1	
	(B)	The true north is 2° east of mag	netic north		
	(C)	The magnetic north is 2° east o	f true north		
	(D)	None of these			
45.	The whole	e circle bearing of a line is 300°, i	ts quadrant	al, bearing is :	
	(A)	N60°W	(B)	W30°N	
	(C)	W60°N	(D)	N30°W	
46.	If the fore	bearing of a line is zero degree i	ts back bear	ring is	— degree.
	(A)	0	(B)	360	
	(C)	90	(D)	180	
47.	If the ma	gnetic bearing of a line is 35°30' will be:	the magnet	cic declination 3°30'W	, the true bearin
	(A)	39°	(B)	32°	
	(C)	37°	(D)	38°	
48.	The line j	oining points of equal dip are call	ed:		
	(A)	Agonic lines	(B)	Isogonics lines	
	(C)	Aclinic lines	(D)	Isoclinic lines	
49.	Line joini	ng places of zero magnetic declin	ation are kn	nown as	— lines.
	(A)	Isoclinic	(B)	Aclinic	
	(C)	Agonic	(D)	Isogonics	
50.	The annu	al variation of magnetic declinati	on at a plac	e is caused because of	the rotation of
	(A)	Earth about Sun	(B)	Moon about Earth	
	(C)	Earth about its own axis	(D)	Moon about Sun	
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51.	The opera	ation of centering is facilitated for a theodolite.	by providi	ng an additional arrangement called
	(A)	Shifting clamp	(B)	Centering fork
	(C)	Shifting centre	(D)	Moving centre
52.		odolite transiting is the operation vertical plane about horizontal ax		g the telescope through ————
	(A)	0°	(B)	180°
	(C)	90°	(D)	270°
53.	The teleso	cope is said to be normal when its	vertical cir	cle is:
	(A)	Left of the vertical axis	(B)	Right of the vertical axis
	(C)	Left of the observer	(D)	Right of the observer
54.	For a the	eodolite, revolving the telescope i	n the horiz	zontal plane, about its vertical axis is
	(A)	Swinging	(B)	Transiting
	(C)	Balancing	(D)	Face changing
55.		ncing the traverse ———————————————————————————————————	— rule is	s used when the linear and angular
	(A)	Transit rule	(B)	Simpson's rule
	(C)	Bowditch rule	(D)	Trapezoidal rule
56.	Still water	er surface is an example for :		
4.5	(A)	Still surface	(B)	Level surface
	(C)	Mean surface level	(D)	Horizontal surface
57.	The imag		tudinal cur	ve of the bubble tube at its midpoint is
	(A)	Tangent of bubble table	(B)	Line of collimation
	(C)	Axis of telescope	(D)	Axis of bubble tube
58.	G.T.S. st	ands for :		
	(A)	Great Traverse Survey	(B)	Gale's Traverse Survey
	(C)	Geodetic Trigonometric Survey	(D)	Great Trigonometric Survey
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99.	Divi in su	rveying designates:		
	(A)	Bench mark	(B)	Bending moment
	(C)	Bending mark	(D)	All the above
-60.	The aver	rage refraction correction can	be taken a	as of the curvature
	(A)	1/12 th	(B)	1/7 th
	(C)	1/6 th	(D)	1/14 th
61.	A church	is situated on the far side of method in plane table su		l is inaccessible. It can be located by
	(A)	Radiation	(B)	Intersection
	(C)	Resection	(D)	Traversing
62.	The lines	having equal gradient along a slo	pe are calle	d:
	(A)	Contour intervals	(B)	Centre slope
	(C)	Grade contour	(D)	Contour gradient
63.		where the contour lines inter	sect each ot	her.
	(A)	Vertical cliff	(B)	Spur
	(C)	Valley	(D)	Overhanging cliff
64.	If the ang	le of intersection of a curve is ϕ ,	then deflect	tion angle will be :
	(A)	$180 + \phi$	(B)	180 − ø
	(C)	90-\(\phi\)	·(D)	90+ ø
65.	The angle	subtended the long chord of a sir	nple circula	r at its centre is equal to :
		Deflection angle		180° – deflection angle
	(C)	180° – deflection angle /2	(D)	Two times the deflection angle
66.		atial condition for the application should be:	n of Simpso	on's rule to find the area, the number
	(A)	Even	(B)	Odd or even
#	(C)	Odd	(D)	None of the above
67.	Droparrov	v is an instrument associated wit	h	— in chain survey:
	(A)	Offsetting	(B)	Chain angle
	(C)	Reciprocal ranging	(D)	Stepping method
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68.	Combined	l correction for curvature and	refraction for a	distance of 3 Km is:	
	(A)	0.6057 mm	(B)	0.6057 cm	
	(C)	0.6057 km	(D)	0.6057 m	
69.	A well cor	nditioned triangle should not	have angles mo	re than ———— degrees.	
	(A)	60	(B)	120	
,	(C)	45	(D)	90	
70.	Invar tap	e is made of an alloy of :	,		
	(A)	Copper and nickel	(B)	Steel and zinc	
	(C)	Steel and nickel	(D)	Copper and zinc	
71.	Hypotenu	ses allowance to be applied to	o each 20 m cha	in length along a slope ϕ degree is:	
	(A)	20(sec θ-1) m	(B)	20(cosec θ-1)	
	(C)	$20(1-\sec\theta)$ m	(D)	$20(1-\csc\theta-1)$	
72.	The angle	e between horizon mirror ar	nd index mirror	r of an optical square is)-10
	(A)	135	(B)	120	
	(C)	90	(D)	45	
73.	Which of	the following figure are equa	I to one acre?		
	(A)	10 sq engineers chain	(B)	10 sq grunter's chain	
	(C)	10 sq metric chain	(D)	10 sq revenue chain	
74.	Parallax	can be eliminated by focusing	:		
	(A)	Eye piece	(B)	Objective	
	(C)	Eye piece and objective	(D)	None of these	
75.	Scale of c	hord is used to measure:		er mans e establem	
	(A)	Angle	(B)	Area	
	(C)	Length	(D)	Radius	
76.	The avera	age length of one pace is take	n as:		5
	(A)	90 cm	(B)	100 cm	
	(C)	70 cm	(D)	80 cm	
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77.	. Compensative errors of length L is proportional to:				
7	(A)	L	(B)	\mathbf{L}^2	
	(C)	L^3	(D)	\sqrt{L} .	
78.	The staff	reading taken on a bench m	ark or a point of	known elevation is known as :	
	(A)	Fore sight	(B)	Back sight	
	(C)	Intermediate sight	(D)	Line of sight	
79.	An examp	ole for obstacles to both chair	ning and ranging	is:	
	(A)	A river	(B)	A lake	
	(C)	·A jungle	(D)	A building	
80.	By using	a chromatic lens in a telesco	pe the optical de	fect ——— can be eliminated.	
	(A)	Spherical abbration	(B)	Chromic abbration	
	(C)	Both (A) and (B)	(D)	None of these	
81.	The first	politician received Bharat R	atna' the highest	Civilian Award of India?	
	(A)	Jawaharlal Nehru	(B)	Dr. S. Radhakrishnan	
	(C)	C. Raja Gopalachari	(D)	Indira Gandhi	
82.	Who amo	ng the following was not a di	sciple (Citar) of 'A	Ayya Vaikundar'?	
	(A)	Dharma citar	(B)	Karma citar	
	(C)	Bhima citar	(D)	Nakulan citar	
83.	Indira Aw	vaas Yojana (IAY) was initia	ted in:		
	(A)	1985	(B)	1975	
	(C)	1986	(D)	1976	
84.	The Head	Quarters of International W	Vater Manageme	nt Institute situated in:	
	(A)	New York	(B)	Colombo	
	(C)	Stockholm	(D)	New Delhi	
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85.	85. Birth Place of Sankaracharya:				
	(A)	Aluva	(B)	Kaladi	
	(C)	Ankamali	(D)	Ernakulam	
86.	Founder	of the political party Forward Bl	oc', (a factio	n within the congress) in 1939:	
	(A)	Jawaharlal Nehru	(B)	A.O. Hume	
	(C)	Gokhale	(D)	Subhash Chandra Bose	
87.	The first	Indian Satellite 'Aryabhatta' was	s launched o	n:	
	(A)	19 April 1975	(B)	20 April 1975	
	(C)	18 April 1975	(D)	25 April 1975	
88.	'ERNET'	means:			
	(A)	External Networking Technology	gy		
	(B)	Employment and Regeneration	Technology		
	(C)	International Networking Tech	nology		
	(D)	The Education and Research N	etwork		
89.	Who was	the owner of the Newspaper 'Swa	adeshabhim	ani'?	
	(A)	K. Ramakrishna Pillai	(B)	A. Ramakrishna Pillai	
	(C)	Abdul Rehiman	(D)	Vakkom Abdul Khader Maulavi	
90.	Human R	ight's Day :			
	(A)	10th December	(B)	10th October	
	(C)	20th December	(D)	20th October	
91.	'Moksha I	Pradheepam' was the book writte	n by:		
	(A)	Ayya Vaikundar	(B)	Vaghbhatananda	
	(C)	Brahmananda Shivayogi	(D)	Chattampi Swamikal	
92.	The First	Five Year plan was launched in:			
	(A)	1951	(B)	1949	
	(C)	1950	(D)	1948	

93.	First chairman of the 'Atomic Energy Commission in India'?			
	(A)	Vikram SaraBhai	, (B)	C.V. Raman
	(C)	Homi. J. Bhabha	(D)	S. N. Bose
94.	India Gov	ernment declared internal em	ergency on:	
	(A)	25th June 1975	(B)	25th July 1975
	(C)	27 th June 1975	(D)	27th July 1975
95.	Which cou	entry was the runner-up of 20.	14 World Cup F	oot Ball?
	(A)	Argentina	(B)	Germany
	(C)	Holland	(D)	Brazil
96.	Who disco	vered South-west Monsoon w	ind in 45 AD?	
	(A)	Pliny, the Elder	(B)	Hippalus
	(C)	Horodotus	(D)	Greek Merchants
97.	Gandhiji's	First experiment of satyagra	ha in India :	*
	(A)	Kheda Satya Graha	(B)	Sabarmathi
	(C)	Champaran	(D)	Ahammedabad
98.	1857 revo	lt or Sepoy mutiny in India wa	as broke out in	
	(A)	Surat	(B)	Meerut
	(C)	Delhi	(D)	Kanpur
99.	'Samatva	Samajam', the organization w	as founded by:	1.
	(A)	Chattampi Swamikal	(B)	Pt. Karuppan
	(C)	Vaikunda Swamikal	(D)	Sree Narayana Guru
100.	Total Nur	mber of West flowing rivers in	Kerala:	
	(A)	44	(B)	43
	(C)	3	(D)	41