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Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	A rectiline	ear figure bour	nded by more tha	n five sides :		
	(A)	Trapezium		(B)	Polygons	
	(C)	Rhombus		(D)	Quadrilateral	
2.	A line 135	m long repres	sents 22.5 on plan	n, then R.F is		
	(A)	1/100		(B)	1/200	
	(C)	1/300		(D)	1/600	
3.	As per Inc	dian standard,	, the length of one	e link in 30 me	eter chain is:	
	(A)	30 cm		(B)	20 cm	
	(C)	40 cm		(D)	10 cm	
4.	Limit of a	reas at which	the survey is tre	ated as plain i	8:	
	(A)	100 KM ²		(B)	150 KM ²	
	(C)	200 KM ²		(D)	260 KM ²	100
5.	The total	number of zer	ros graduated on	surveyor's con	npass is:	
	(A)	One		(B)	Two	
	(C)	Three		(D)	Four	
6.	If the wh	ole circle bear	ing of a line is 25	0°, its reduced	bearing is:	
	(A)	N 70° W		(B)	S 70° W	
	(C)	S 70° E		(D)	N 70° E	
7.	In plane obtained		measuring of l	ines and angl	les is mostly dispensed, but they	are
	(A)	Graphically		(B)	By trigonometrically	
	(C)	By calculati	ions	(D)	All the above	

8.	The alidade used in plane table survey, its beveled edges is also known as:				
	(A)	Ruling edge	(B)	Working edge	
	(C)	Fiducial edge	(D)	All the above	
9.	Scale of cl	hord is used to measu	re:		
	(A)	Angles	(B)	Area	
	(C)	Length	(D)	Diameter	
10.	A King no	et truca consista of tru	n lawan in disadan a		
10.	(A)	Struts	o longer inclined memb	CARL TO THE RESERVE OF THE PARTY OF THE PART	
	(C)	King post	(B)	Principal rafter	
	(0)	rang post	(D)	Beam	
11.	Survey co	nducted for unearthin	g relics of antiquity :		
	(A)	Geological survey	(B)	Mine survey	
	(C)	Military survey	(D)	Archeological survey	
12.	The maxis	mum value of measur	ement in quadrilateral	hooving in	
	(A)	0°	(B)	360°	
	(C)	90°	(D)	180°	
	,,,,		(b)	100	
13.	Lines pass	sing through points h	aving same declination	at a given point is:	
	(A)	Isogonic line	(B)	Agonic line	
	(C)	Bearing of line	(D)	Contour line	
14.	-	- is done to set the	e plane table in meridia	an at successive station.	
	(A)	Centering		Leveling	
	(C)	Orientation	(D)	Both (A) and (B)	
	m 1				
15.			he plane table station :		
	(A)	Intersection	(B)	Radiation	
	(C)	Traversing	(D)	Offsetting	
16.	The metho	d used for locating st	ation points only by sig	hting towards well defined objects:	
	(A)	Intersection	(B)	Radiation	
	(C)	Traversing	(D)	Resection	

17.	Leveling i	s the art of finding the ————	— of the	objects on the surface of the earth.
	(A)	Relative heights and depths	(B)	Relative angles
	(C)	Distance	(D)	Depth only
18.	Reduced 1	evel is also known as :		
	(A)	Datum	(B)	Bench mark
	(C)	Elevation of the point	(D)	Change point
19.	The error	is leveling operation during settle	ment of t	ripod on turning point is:
	(A)	Instrumental error	(B)	Natural
	(C)	Personal	(D)	All the above
20.		reading on a certain peg is 1.680 ength of 4 m. The correct reading fo		staff is held 0.25 m out of the plumb in
	(A)	1.80 m	(B)	1.780 m
	(C)	1.670 m	(D)) 1.676 m
21.	In rise an	d fall method of reduction of levels	provide	s a check on :
	(A)	Back sight only	(B)) Fore sight only
	(C)	Intermediate sight only	(D)) All the sights
22.	Crop peri	od is the time elapsed between :		
	(A)	First watering to last watering	(B)) First watering before sowing
	(C)	Last watering before harvesting	(D) Sowing to harvesting
23.	For a clos	sed traverse the algebraic sum of t	he deflect	tion angle is equal to :
	(A)	90°	(B) 180°
	(C)	270°	(D) 360°
24.	The cons	tant vertical distance between two	consecut	tive contours is called:
	(A)	Horizontal equivalent	(B	Rise
A	(C)	Level difference	5 (D	O) Contour interval 173/2015 [P.T.O.]

25. In Theodolite traversing method consists in measuring the several angles st finally closing the horizon at the starting point;				ng the several angles successively and
	(A)	Repetition method	(B)	Reiteration method
	(C)	Ordinary method	(D)	Direct method
26.	The vertice position is		on the left of th	he observer while taking a reading, the
	(A)	Face right observation	(B)	Face left observation
	(C)	Normal position	(D)	Both (B) and (C)
27.	The funct	ional 1 key for ortho comman	d used in CAD :	
	(A)	F6	(B)	F6
	(C)	F ₇	(D)	Fs
28.	The CAD	command used to lengthen or	shorten the lin	ues or object is :
	(A)	Stretch	(B)	Extend
	(C)	Offset	(D)	Distance
29.	The draft	ing setting used to pick a geor	netric point on	an object is :
	(A)	SNAP	(B)	O-SNAP
	(C)	ORTHO	(D)	POLAR TRACKING
30.	The CAD	command used to join 2 paral	lel line is :	
	(A)	Chamfer	(B)	Extend
	/ (C)	Fillet	(D)	Stretch
31.	In a well o	conditioned triangle, no angle	should be less t	than:
	(A)	30°	(B)	40°
	(C)	50°	(D)	60°
32.	Number o	f arrows accompanying each o	chain :	
	(A)	12	(B)	10
	(C)	8	(D)	6
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33.	In one setting up of the level the maximum number of back sight and fore sight is:					
	(A)	One and two	(B)	Two each		
	(C)	One each	(D)	Two and one		
34.	In Levelin	g station is a point where :				
	(A)	Staff is held	(B)	Instrument is fixed		
	(C)	Ranging rod is fixed	(D)	Peg is marked		
35.	Contour n	nap is used for :				
	(A)	Inter visibility between ground points	(B)	Quantities of earth work		
	(C)	Tracing route	(D)	All the above		
36.	Plunging	or reversing of the theodolite telescope	is als	o called:		
	(A)	Swinging	(B)	Transisting		
	(C)	Change the face	(D)	None of these		
37.	The type		nsist	of alternate courses of headers and		
	(A)	English	(B)	Flemish		
	(C)	Dutch	(D)	Heading		
38.	Agate cap	is fitted with a:				
	(A)	Cross staff	(B)	Level		
	(C)	Chain	(D)	Prismatic compass		
39.	The closis	ng error in a closed traverse is adjusted	by:			
	(A)	Lehmann's rule	(B)	Trapezoidal rule		
	(C)	Bowditch's rule	(D)	Simpson's rule		
40.	For rangi	ng a line number of ranging rod require	ed is :			
	(A)	atleast 3	(B)	atleast 4		
	(C)	atleast 5	(D)	atleast 2		
41.	Curvatur	e effect of the earth is taken into accoun	nt in			
	(A)	Geodetic survey	(B)	Plane survey		
	(C)	Plane table survey	(D)	Hydrographic survey 173/2015		
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42.	The T- square is used for drawing:				
	(A)	Vertical	0	B)	Horizontal
	(C)	Inclined	(D)	Curve
40	m				
43.		nt warping of the boar			eared at its back.
	(A)	Packing		B)	Wooden block
	(C)	Battens	(1	D)	Blades
44.	The first	dimension line should	be placed atleast:		
	(A)	10 mm from the con	struction line (B)	12 mm from the construction line
	(C)	8 mm from the cons	truction line (D)	9 mm from the construction line
	TIL				
45.		of the included angle			
	(A)	720°		B)	540°
	(C)	900°	(1	D)	360°
46.	The angle	of inclined letters :	#		
	(A)	30°		B)	60°
	(C)	45°	(1	D)	75°
47.		lard size of B ₂ imperia	l drawing is :		
	(A)	700 × 600	(1	B)	800 × 600
	(C)	800 × 500	(I	D)	700 × 500
48.	The lowes	t part of the structure	which transmit the	loa	ad to the soil is :
	(A)	Superstructure	(I	B)	Basement
	(C)	Plinth	(I	D)	Substructure
49.	Area of tri	immed Ao sheet design	noted by ISO is .		
	(A)	1 m ²		3)	0.5 m ²
	(C)	0.25 m ²		0)	0.125 m ²
	(0)		(1	,	U.120 III-
50.	A right an	gled parallelogram wi	ith its opposite sides	are	e equal :
	(A)	Pentagon	(I	3)	Triangle
	(C)	Rectangle	(I	0)	Trapezium

- 51. Number of bricks required for one cubic meter :
 - (A) 600

(B) 900

(C) 800

(D) 500

- 52. A lintel is provided:
 - (A) Over a door opening

(B) Below a door opening

(C) Inner a door opening

- (D) Side a door opening
- 53. The Diameter of the graduated circle on the lower plate determines the:
 - (A) Size of theodolite

- (B) Length of theodolite
- (C) Thickness of theodolite
- (D) Accuracy of theodolite
- 54. In Theodolite the verniers A and B are marked in:
 - (A) Upper plate

(B) Lower plate

(C) Vertical plate

(D) Graduated circle

- 55. Pantograph is used for :
 - (A) Measuring right angles
- (B) Enlarging and reducing plans

(C) Measuring distances

- (D) Measuring volume
- 56. Simplify: 44-[33-{44(33-44-33)}].
 - (A) 11

(B) 1925

(C) -11

(D) 33

- 57. Factorize: $49x^2 81y^2 =$
 - (A) (7x-9y)(7x-9y)

(B) (7x + 9y)(7x - 9y)

(C) (7x+9y)(7x+9y)

(D) (7x+6y)(7x-9y)

- 58. Volume of a sphere is given by:
 - (A) $\frac{4}{3} \pi r^3$

(B) $\frac{3}{4} \pi r^2$

(C) $\frac{4}{3}\pi r$

(D) $\frac{4}{3} \pi r^2$

59.	Volume of	a cylinder is given by	to the same of the	
	(A)	70°3	(B)	Ter2
	(C)	₩r²h	(D)	mlh
60.	The equat	tion of a straight line in	a graph is shown by	
	(A)	$y = mx^2$	(B)	y = mx
	(C)	y = mx	(D)	$y = mx^3$
61.	The volun	ne of a cube with each a	side measures 2 m is :	
	(A)	4 m ²	(B)	8 m ²
	(C)	4 m³	(D)	8 m ³
62.	The value	of sine 90° is:		
	(A)	1	(B)	0
	(C)	5	(D)	$1/\sqrt{2}$
63.	The value	of $1 + \tan^2 \theta$ is:		
	(A)	$\csc^2\theta$	(B)	$\sec^2 \theta$
	(C)	$\cot \theta$	(D)	$\sec \theta$
64.	The value	of sin 2A:		
	(A)	$1-\sin^2 A$	(B)	$1-\cos^2 A$
	(C)	$2\sin A/\cos A$	(D)	$2\sin A\cos A$
65.	One chain	ı is:		
	(A)	22 yards	(B)	11 yards
	(C)	27 yards	(D)	10 yards
66.	The base	unit of length in S.I sys	stem:	
	(A)	Yards	(B)	Meter
	(C)	Feet	(D)	Inch
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67.	The multi	ple factor of the	prefix deci is:	
	(A)	0.1	(B)	0.01
	(C)	0.01	(D)	0.001
68.	The rate a	at which work is	done:	
	(A)	Energy	(B)	Force
	(C)	Power	(D)	Work
69.	The unit	of velocity is:		
	(A)	Rate of change	of position of 1 m per second	1
	(B)	Rate of change	of one radian per second	
	(C)	One radian per	r second	
	(D)	Watt		
70.	A combin	ation of two reve	erse curve used to avoid inter	vening obstructions like buildings etc:
	(A)	Simple curve	(B)	Compound
	(C)	Reverse	(D)	Deviation
71.	A quantit	y having both m	agnitude and direction is :	
	(A)	Scalar	(B)	Scale
	(C)	Vector	(D)	Co-ordinate
72.	The eccer	ntricity of a para	bola is usually :	
	(A)	>1	(B)	<1
	(C)	1	(D)	≠ 1
73.	The valu	e of "g"(accelerat	ion due to gravity) is:	
	(A)	9.8 m/s ²	(B)	8.9 m/s ²
	(C)	9.6 m/s ²	(D)	98 m/s ²
74.	The char	nge in dimension	per unit dimension of a body	y is called:
	(A)	Stress	(B)	Strain
	(C)	Tension	(D)	Plasticity
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75.	Hook's la	w holds upto :		
	(A)	Yield point .	(B)	Elastic limit
	(C)	Plastic limit	(D)	Breaking point
76.	Solder is	an alloy of :		
	(A)	Alumina and lead	(B)	Alumina and tin
	(C)	Copper and Zinc	(D)	Lead and tin
77.	An optica service et	l instrument used in	modern surveying, arcl	naeology, investigation and for military
	(A)	Theodolite	(B)	Total - station
	(C)	Dumpy level	(D)	Prismatic compass
78.	An triang	le is obtain by joinin	g the pole, zenith and	any star on the sphere by arc of great
	(A)	Spherical triangle	(B)	Celestial triangle
	(C)	Astronomical triang	de (D)	Terrestrial triangle
79.	The science without be	ce and art of collectin	g information about object with them :	ects, area or phenomena from distance
	(A)	Remote sensing	(B)	Surveying
	(C)	Hydrographic surve	y (D)	Contouring
80.	The revers	se process of surveying	in with the data are tra	nsferred from drawing to the ground :
	(A)	Ranging	(B)	Chaining
	(C)	Both (A) and (B)	(D)	Setting out
81.	"Tatwa Pr	akasika Ashram' was	started by:	
	(A)	Vagbhatananda	(B)	Chattampi Swamikal
	(C)	Kumaraguru	(D)	V.T. Bhattatirippad
82.	The device	e, that measures the	lepth of the sea :	
	(A)	Barometer	(B)	Fathometer
	(C)	Manometer	(D)	Lactometer
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83.	'The Dars language.	sanamala', famous work of Sree	Narayana	Guru, was written in ————
	(A)	Prakrith	(B)	Tamil
	(C)	Sanskrit	(D)	Pali
84.	The Pract	ice of 'Sati' was banned by :		
	(A)	Dalhousie	(B)	Cornwallis
	(C)	Rippon	(D)	William Bentinck
85.	Ezhuthac	han Award Winner of 2014 :		
	(A)	Vishnu Narayanan Namboothir	i (B)	Attoor Ravi Varma
*	(C)	Dr. M.K. Sanu	(D)	P. Narayana Kuruppu
86.	Who was	the author of 'Anandakkummi'?		
	(A)	Pandit K.P. Karuppan	(B)	Brahmananda Swami Sivayogi
	(C)	Ayya Vaikundar	(D)	Thycaud Ayya
87.	'The Part	ition of Bengal' was revoked in:		
	(A)	1905	(B)	1909
	(C)	1911	(D)	1907
88.	Who dire	cted the film 'Kuttisrank'?		
	(A)	Salim Ahammed	(B)	M.T. Vasudevan Nair
	(C)	Adoor Gopalakrishnan	(D)	Shaji N. Karun
89.	The edito	or of 'Yuktivadi Magazine':		
	(A)	K. Ayyappan	(B)	C. Krishnan
	(C)	Vakkom Moulavi	(D)	Swadesabhimani Ramakrishna Pillai
90.	'Durand	Cup' associated with:		
	(A)	Cricket	(B)	Foot ball
	(C)	Polo	(D)	Weight lifting
91.	One of th	e Nobel Prize winner of Chemistr	ry in 2014 :	
	(A)	Jean Tirole	(B)	Hiroshi Amano
	(C)	Eric Betzig	(D)	Patrick Modiano
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92.	Who was the author of the work 'Lanka Mardhanam'?					
	(A)	Pandit K.P. Karuppan	n (B)	Kumaranasan		
	(C)	Mannathu Padmanab	ohan (D)	Poikayil Yohannan		
98.	The rena	ming of Planning comm	ission called 'NITI As	yog' was formed on :		
	(A)	8th February 2015	(B)	1st January 2015		
	(C)	11th January 2015	(D)	8th December 2014		
94.	'Saptange	Theory of state was as	ssociated with:			
	(A)	Aristotle	(B)	Patanjali		
	(C)	Megasthanese	(D)	Kautilya		
95.	The first the President	Kerala State Political C dentship of :	Conference was held o	on 23 rd April 1921 at Ottappalam under		
	(A)	K. Madhavan Nair	(B)	T.Prakasam		
	(C)	Annie Besant	(D)	K.P. Kesava Menon		
96.	The head	quarters of UNICEF:				
	(A)	Newyork	(B)	Washington		
	(C)	Paris	(D)	Geneva		
97.	'Blue Rev	olution' aims for increas	sing ———— cu	ltivation.		
	(A)	Milk	(B)	Fruits		
	(C)	Fish	(D)	Cotton		
98.	The Pictutime.	res carved at Edakkal	caves in Wayanad n	oticed by — for the first		
	(A)	Alexander Cunningha	m (B)	B.K. Thaper		
	(C)	John Marshall	(D)	Faucett		
99.	The Gover	rnment of India appointe	ed the 'Hunter Commi	ittee' to investigate into and report on :		
	(A)	Wagon Tragedy	(B)	Education Committee		
	(C)	Jallianwalla Bagh Ma	ssacre (D)	Famine Commission		
100.	Melmund	u kalapam' was started	by co	mmunity.		
	(A)	Pulaya	(B)	Kurichya		
	(C)	Ezhava	(D)	Channar		

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