## PSC Surveyor Grade II - Survey And Land Records Examination Previous Year Question Paper

Exam Name: Surveyor Grade II - Survey And Land Records

Date of Test: 20.08.2016

Question Paper Code: 102/2016

Medium of Questions: English



## 102/2016

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Time: 1 hour and 15 minutes

1.		f determining and representing trace of the earth :	the relative l	heights or elevations of different points
	(A)	levelling	(B)	surveying
	(C)	traversing	(D)	balancing
2.	Which sca	ale is used to read three dimensi	ons?	
	(A)	Plane scale	(B)	Diagonal scale
	(C)	Comparative scale	(D)	Full scale
3.	The main	principle of surveying is two wo	rk form :	
	(A)	lower level to higher level	(B)	higher level to lower level
	(C)	whole to part	(D)	part to whole
4.	The longe	st 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	e highest pre	cession.
	(A)	Cloth tape	(B)	Metallic tape
	(C)	Linen tape	(D)	Invar tape
6.		is used for enlargement and re	duction of pl	ans.
	(A)	Planimeter	(B)	Clinometer
	(C)	Pentagraph	(D)	Lithograph
7.	In Survey	or's compass zero degree is marl	ked at ——	—— end.
	(A)	North	(B)	South
	(C)	North and South	(D)	East and West
8.	In an opti	ical square the two mirrors are p	laced at an a	angle of :
	(A)	25°	(B)	35°
	(C)	45°	(D)	55°
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9.	The inclin	nation of the magnetic needle wi	th horizontal	is known as:
	(A)	Dip	(B)	Declination
	(C)	Closing error	(D)	Sighting error
10.	Direct rai	nging is possible only when the	end points ar	e:
	(A)	more than 200 metres	(B)	mutually intervisible
	(C)	in hilly areas	(D)	in valley portion
11.	The mova	ble parts that are cleaned and l	ubricated cor	nes 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.		zontal angle which the magne is known as:	tic meridian	makes with the true or geographica
	(A)	Dip	(B)	Magnetic declination
	(C)	True bearing	(D)	Magnetic bearing
14.	GTS stan	ds for:		
	(A)	Great Triangle Survey	(B)	Great Trignometrical Survey
	(C)	Great Traverse Survey	(D)	Great Tangential Survey
15.	In a serie	s of contour lines, if the higher	values are ins	side the bend or loop it represents a:
	(A)	ridge line	(B)	valley line
	(C)	vertical cliff	(D)	over hanging cliff
16.	A long off	set is to be measured more than	ı:	
	(A)	5 m	(B)	10 m
	(C)	15 m	(D)	20 m
17.	Obstacle	for both vision and chaining is o	ccurred when	n it crosses a:
	(A)	Building	(B)	River
	(C)	Pond	(D)	Sill
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18.	A series o	of connected survey lines of kno	own length and	directions are called:
	(A)	Plane surveying	(B)	Geodetic surveying
	(C)	Traverse surveying	(D)	Levelling
19.	When two	o lines meet at a point, the sun	n of both interi	or and exterior angles is equal to :
	(A)	90°	(B)	180°
	(C)	270°	(D)	360°
20.	Brass har	ndle is connected to the link by	:	
	(A)	Flexible joint	(B)	Ball and socket joint
	(C)	Butt joint	(D)	Swivel joint
21.	The varia	tion of magnetic declination oc	curred due to	magnetic storms and earthquakes is:
	(A)	Annual variation	(B)	Irregular variation
	(C)	Secular variation	(D)	Diurnal variation
22.	Plane tab	le is centered over a station wi	th the help of	
	(A)	Spirit level	(B)	Alidade
	(C)	Trough compass	(D)	Plumbing fork with plumb-bob
23.	Which me	ethod is used for locating inacc	essible objects	?
	(A)	Radiation	(B)	Intersection
	(C)	Resection	(D)	Traversing
24.	Bessel's s	olution of three point problem	is also known	as:
	(A)	Trial and error method	(B)	Traversing method
	(C)	Radiation method	(D)	Graphical method
25.	Which cir	cle passes through the three g	round points, i	n three point problem?
	(A)	Concentric circle	(B)	Eccentric circle
	(C)	Great circle	(D)	Circle
26.		is a point denoting shifting o	f the level.	
	(A)	Back sight	(B)	Station point
	(C)	Intermediate point	(D)	Change point
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27.	The least	count of a metric levelling	g staff:	
	(A)	0.5 mm	(B)	0.05 mm
	(C)	5 mm	(D)	15 mm
28.		le levelling the back sight 420 then RL of 'C' is :	t taken at 'A' of RL	100.00 is 2.350 and the foresight taken
	(A)	102.350	(B)	103.350
	(C)	101.930	(D)	100.00
29.	In workin	g profile of a longitudinal	section, the depth	of cuttings are written in:
	(A)	Red	(B)	Green
	(C)	Blue	(D)	Black
30.	While plo	tting the cross-sections:		
	(A)	vertical scale is enlarged	d 10 times the horiz	ontal scale
	(B)	vertical scale is reduced	by one-tenth of the	horizontal scale
	(C)	both the vertical and ho	rizontal scales are l	cept 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 ro	ds and sight rails are use	d for:	
	(A)	the road alignment		
	(B)	setting out gradient		
	(C)	selecting the most econo	omical and suitable	site for engineering works
	(D)	contouring by tacheome	tric method	
33.	Contour i	nterval is:		
	(A)	the horizontal distance l	between two consec	utive contours
	(B)	the least horizontal dist	ance between two c	onsecutive contours
	(C)	the distance between tw	o consecutive conto	urs along the grade contour
	(D)	the vertical distance bet	ween two consecuti	ve contours

34.	For direct	ly applying Simpson's rule the	number of ord	linates 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 measur	ring horizontal distance by stepping:
	(A)	down hill	(B)	uphill
	(C)	low undulating	(D)	in plane areas
36.	A clinome	eter is used for :		
	(A)	Angle of slope	(B)	Line of collimation
	(C)	To setout right angles	(D)	Natural features
37.	Plani met	er is used for measuring :		
	(A)	Volume	(B)	Area
	(C)	Slope of angle	(D)	Contour gradient
38.	In metric	levelling staff, number of subdi	visions per m	etre length are:
	(A)	100	(B)	200
	(C)	500	(D)	1000
39.	The beari	ng of lines OA and OB are 26°	10' and 332° 1	8' the value of inculd angle BOA is:
	(A)	316° 10′	(B)	158° 28'
	(C)	358° 28'	(D)	53° 52'
40.	Bearing o	of AB is 75° 10' and bearing of E	C is 100° 20'	the angle ABC is:
	(A)	175° 30'	(B)	154°
	(C)	154° 50'	- (D)	255° 10'
41.	A bearing	of a line is also known as :		
	(A)	True bearing	(B)	Azimuth
	(C)	Magnetic bearing	(D)	Reduced bearing
42.		ation of making the algebraic s zero is known as :	um of latitud	les and departures of a closed traverse
	(A)	Balancing the sights	(B)	Balancing the latitudes
	(C)	Balancing the departures	(D)	Balancing the traverse
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43.		of a given line are not inter dopted to establish intermed		intermediate points, in such a case the
	(A)	Random line method	(B)	Lining in
	(C)	Balancing in	(D)	Double sighting
44.	Rotating	the telescope of a theodolite	in horizontal pla	ne about its vertical axis is called:
	(A)	Plunging	(B)	Swinging
	(C)	Transiting	(D)	Reversing
45.		inary line joining the centre	of the eye piece	and optical centre of the objective in a
	(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.		of a brick cut along the cent ck is called :	re of width in su	ch a way that its length is equal to that
	(A)	Half brick	(B)	Queen closer
	(C)	King closer	(D)	Bevelled closer
49.	A covering	g of concrete placed on the ex	xposed top of an	external wall, is known as :
	· (A)	Cornice	(B)	Frieze
	(C)	Lintel	(D)	Coping
50.	The const safety is c		work to dischar	ge surplus water to down stream side
	(A)	Sluice	(B)	Barrage
	(C)	Head regulator	(D)	Spillway
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51.	The sum	of interior angles of closed travers	se 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 po	lygon the sum of the deflection an	gle will be	equal to:
	(A)	90°	(B)	180°
	(C)	270°	(D)	360°
54.	If angula	ar measurements of a traverse a g of the traverse is done by:	are more p	precise than its linear measurements
	(A)	Bowditch's rule	(B)	Transit rule
	(C)	Empirical rule	(D)	Random rule
55.	The latitu	ide of any traverse line is obtained	l by multip	lying its length by:
	(A)	tangent of it reduced bearing	(B)	sine of its reduced bearing
	(C)	cosine of its reduced bearing	(D)	cosecant of its reduced bearing
56.	An engine	eers chain islong.		
	(A)	100 ft	(B)	33 ft
	(C)	16 ft	(D)	66 ft
57.	Least cou	nt of theodolite is secon	nds.	
	(A)	20	(B)	40
	(C)	10	(D)	30
58.		type of errors erises due to impe	rfect focus	sing.
	(A)	Collimation	(B)	Eccentricity
	(C)	Paralax	(D)	Hypotenuse allowance
59.	The angle	subtended by the long chord of a	simple curv	ve at its centre is equal to:
	(A)	Deflection angle	(B)	Intersection angle
	(C)	2 times deflection angle	(D)	$\frac{1}{2}$ times deflection angle
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60.	$\frac{\pi R\phi}{}$ is			
00.	180°	18		

(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 sawing 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. Lateral 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° 45', the bearing of CD is:
  - (A) 142° 45'

(B) 52° 45'

(C) 232° 45'

(D) 322° 45'

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68.	CPU stan	ds for :				
	(A)	Chief Performance Unit	. (B)	Central Processing Unit		
	(C)	Chief Processing Unit	(D)	Central Performance Unit		
69.	Maximise	e, minimise and close buttons are p	present in t	the:		
	(Å)	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 o	f the menu			
	(A)	View	(B)	Favourites		
	(C)	Format	(D)	Edit		
72.	The work	ing principle of optical square is:				
	(A)	Refraction	(B)	Reflection		
	(C)	Double refraction	(D)	Double reflection		
73.		sight reading on a bench mark of the RL of B is:	'RL' 200.00	m is 2.685 and fore sight reading on B		
	(A)	202.685m	· (B)	201.380m		
	(C)	203.990m	(D)	201.305m		
74.	For prepa	nration of a contour map for a rout	e 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 quadr bearing b		ing of a li	ne may be obtained from its forward		
	(A)	(A) Adding 180°, if the given bearing is less than 180°				
	(B)	Changing the cardinal points, vice-versa	i.e. substi	tuting 'N' for 'S' and 'E' for 'W' and		
	(C)	Adding 90°				
	(D)	Subtracting 180°, if the given be	aring is gre	eater than 180°		
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76.	The hard	signal "Both hands above head an	d then bro	ught down" is :
	(A)	Move slowly to the right	(B)	Move slowly to the left
	(C)	Fix	(D)	Correct
77.	During th	ne reconnaissance the surveyor sho	ould prepar	re:
	(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 Ceylo	on 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 proceangles an	ess of levelling in which the elev d horizontal distances measured in	ations of p	points are computed from the vertical
	(A)	Simple levelling	(B)	Fly levelling
	(C)	Trigonometrical levelling	(D)	Check levelling
81.	Among th	e following who was not a leader o	of Salt Saty	agraha held at Kozhikkode:
	(A)	Manjeri Rama Iyer	(B)	P. Krishna Pillai
	(C)	K. Kelappan	(D)	T.R. Krishna Swami Iyer
82.	Which wa	s not a work of Makthi Thangal?		
	(A)	Paropakari	(B)	Sathyaprakasham
	(C)	Thurki Samacharam	(D)	None of these
83.	'Vaala Se	va 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)	Bhavatratam Nambutiripad	(D)	None of these

85.	Who amo	ng the following got Bharat Ratna befor	re bec	oming the President of India?
	(A)	Dr. Zakir Hussain	(B)	V.V. Giri
	(C)	Fakhruddin Ali Ahmed	(D)	Dr. Rajendra Prasad
86.	Among th	e following who was not chairperson of	Natio	onal Commission for women?
	(A)	Jayanthi Patnaik	(B)	Poormima Advani
	(C)	Meira Kumar	(D)	Girija Vyas
87.	Which cor	nstitutional amendment raised the num	nber o	f Loksabha seats to 545?
	(A)	16th (1963)	(B)	30th (1973)
	(C)	31st (1973)	(D)	42th (1976)
88.	'Narakara	a Vadham' was on attakkatha written b	y:	
	(A)	Karthikathirunal Rama Varma	(B)	Kottayam Raja
	(C)	Aswathi Thirunal Ilaya Thampuram	(D)	Irayimman Thampi
89.	'Vaidyaje	evanam' is a work written on Ayurveda	by:	
	(A)	Pachu Muthath	(B)	Itty Achuthan
	(C)	Appu Bhatt	(D)	Vallathol Narayana Menon
90.	'Neelakar	nta 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 th	e following who was not an associate o	f Ayya	ankali :
	(A)	Thomas Vadhyar	(B)	Paraji Tharakan
	(C)	Kavalam Charathan Solomon	(D)	Yesudasan
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93.	'Kishore Sakthi Yojana' is aimed to:			
	(A)	(A) impart training for employment of rural women		
	(B)	improve the nutrition and health of teenage girls		
	(C)	C) holistic empowerment of women		
	(D)	(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. Pottel	katt atten	ded from Kerala?
	(A)	Haripura	(B)	Nagpur
	(C)	Tripuri	(D)	Bombay