## PSC Surveyor Grade ii - Sr For Sc/st - Survey And Land Records Examination Previous Year Question Paper

Exam Name: Surveyor Grade ii - Sr For Sc/st - Survey And Land Records

Date of Test: 18.09.2015

Question Paper Code: 173/2015

Medium of Questions: English



## 173/2015

Maxim	um	: ]	100	marks
ATROCKECKE	***		m mr / mr.)	

Time: 1 hour and 15 minutes

<ol> <li>A rectilinear figure bounded by more than five sides:         <ul> <li>(A) Trapezium</li> <li>(B) Polygons</li> <li>(C) Rhombus</li> <li>(D) Quadrilateral</li> <li>A line 135 m long represents 22.5 on plan, then R.F is:</li> </ul> </li> </ol>	
(C) Rhombus (D) Quadrilateral	
2. A line 135 m long represents 22.5 on plan, then R.F is:	
(A) 1/100 (B) 1/200	
(C) 1/300 (D) 1/600	
3. As per Indian standard, the length of one link in 30 meter chain is:	
(A) 30 cm (B) 20 cm	
(C) 40 cm (D) 10 cm	
4. Limit of areas at which the survey is treated as plain is:	
(A) 100 KM <sup>2</sup> (B) 150 KM <sup>2</sup>	
(C) 200 KM <sup>2</sup> (D) 260 KM <sup>2</sup>	
5. The total number of zeros graduated on surveyor's compass is:	
(A) One (B) Two	
(C) Three (D) Four	
6. If the whole circle bearing of a line is 250°, its reduced bearing is:	
(A) N 70° W (B) S 70° W	
(C) S 70° E (D) N 70° E	
7. In plane table survey measuring of lines and angles is mostly dispensed, but the	ey are
obtained:	
(A) Graphically (B) By trigonometrically	
(C) By calculations (D) All the above	
A 3	[P.T.O.]

8.	The alida	de used in plane table	survey, its beveled ed	ges is also known as :
	(A)	Ruling edge	(B)	Working edge
	(C)	Fiducial edge	(D)	All the above
9.	**	hord is used to measu	re:	
	(A)	Angles	(B)	Area
	(C)	Length	(D)	Diameter
10.	A King po	est truss consists of tw	o longer inclined memb	per known as :
	(A)	Struts	(B)	Principal rafter
	(C)	King post	(D)	Beam
			A	
11.	Survey co	nducted for unearthin	ng 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	bearing is:
	(A)	0°	(B)	360°
	(C)	90°	(D)	180°
13.	Lines pas	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 th	a nlana tahla in manidis	
	(A)			an at successive station.
	(C)	Orientation	(B)	Leveling  Reth (A) and (D)
1/3/	(0)	Officiation	(D)	Both (A) and (B)
15.	To locate	an electric pole near t	he plane table station :	
	(A)	Intersection	(B)	Radiation
	(C)	Traversing	(D)	Offsetting
16.	The metho	nd used for locating at	ation valuta aulu ka d	1
	(A)	Intersection		hting towards well defined objects:
	(C)	Traversing	(B)	Radiation
	(0)	raveranig	(D)	Resection
173/	2015		4	

Leveling i	s the art of finding the	— of the	e c	bjects on the surface of the earth.
(A)	Relative heights and depths	(B)	)	Relative angles
(C)	Distance	(D)	)	Depth only
Reduced l	evel is also known as :		+	
(A)	Datum	(B)	)	Bench mark
(C)	Elevation of the point	(D	)	Change point
The error	is leveling operation during settle	ment of	tri	pod on turning point is:
(A)	Instrumental error	(B	)	Natural
(C)	Personal	(D	)	All the above
(A)	1.80 m	(B	()	1.780 m
(C)	1.670 m	(D	))	1.676 m
In rise an	d fall method of reduction of level	s provide	8 8	a check on:
(A)	Back sight only	(B	3)	Fore sight only
(C)	Intermediate sight only	Œ	))	All the sights
Crop peri	iod is the time elapsed between:			
(A)	First watering to last watering	(E	3)	First watering before sowing
(C)	Last watering before harvesting	(I	))	Sowing to harvesting
For a clos	sed traverse the algebraic sum of t	he deflec	etic	on angle is equal to :
(A)	90°	(E	3)	180°
(C)	270°	(I	))	360°
The cons	tant vertical distance between two	consecu	tiv	ve contours is called :
(A)	Horizontal equivalent	(I	B)	Rise
(C)	Level difference	5 (I	D)	Contour interval 173/2015 [P.T.O.]
	(A) (C) Reduced I (A) (C) The error (A) (C) The staff its total le (A) (C) In rise an (A) (C) Crop period (A) (C) For a close (A) (C) The cons (A)	Reduced level is also known as:  (A) Datum (C) Elevation of the point  The error is leveling operation during settle (A) Instrumental error (C) Personal  The staff reading on a certain peg is 1.680 its total length of 4 m. The correct reading f (A) 1.80 m (C) 1.670 m  In rise and fall method of reduction of level (A) Back sight only (C) Intermediate sight only  Crop period is the time elapsed between:  (A) First watering to last watering (C) Last watering before harvesting  For a closed traverse the algebraic sum of t (A) 90° (C) 270°  The constant vertical distance between two (A) Horizontal equivalent	(A) Relative heights and depths (C) Distance (D)  Reduced level is also known as:  (A) Datum (B) (C) Elevation of the point (D)  The error is leveling operation during settlement of (A) Instrumental error (C) Personal (D)  The staff reading on a certain peg is 1.680 when the its total length of 4 m. The correct reading for the staff (A) 1.80 m (C) 1.670 m (D)  In rise and fall method of reduction of levels provide (A) Back sight only (C) Intermediate sight only (C) Intermediate sight only (C) Last watering to last watering (C) Last watering before harvesting (D)  For a closed traverse the algebraic sum of the deflection of the deflect	(A) Relative heights and depths (B) (C) Distance (D)  Reduced level is also known as:  (A) Datum (B) (C) Elevation of the point (D)  The error is leveling operation during settlement of tri (A) Instrumental error (B) (C) Personal (D)  The staff reading on a certain peg is 1.680 when the sits total length of 4 m. The correct reading for the staff (A) 1.80 m (B) (C) 1.670 m (D)  In rise and fall method of reduction of levels provides (A) Back sight only (B) (C) Intermediate sight only (D)  Crop period is the time elapsed between: (A) First watering to last watering (B) (C) Last watering before harvesting (D)  For a closed traverse the algebraic sum of the deflection (A) 90° (B) (C) 270° (D)  The constant vertical distance between two consecution (A) Horizontal equivalent (B) (C) Level difference (D)

25.		olite traversing method sing the horizon at the s		ng the several angles successively a	nd
	(A)	Repetition method	(B)	Reiteration method	
	(C)	Ordinary method	(D)	Direct method	
26.	The vertice position is		ent is on the left of th	ne observer while taking a reading, t	he
	(A)	Face right observation	(B)	Face left observation	
	(C)	Normal position	(D)	Both (B) and (C)	
27.	The funct	ional 1 key for ortho com	mand used in CAD :		
	(A)	F6	(B)	F <sub>6</sub>	
	(C)	F7	(D)	F8	
28.	The CAD	command used to length	en or shorten the lin	es or object is :	
	(A)	Stretch	(B)	Extend	
	(C)	Offset	(D)	Distance	
29.	The drafti	ng setting used to pick a	geometric point on	an object is :	
	(A)	SNAP	(B)	O-SNAP	
	(C)	ORTHO	(D)	POLAR TRACKING	
30.	The CAD	command used to join 2 p	parallel line is :		
	(A)	Chamfer	(B)	Extend	
	(C)	Fillet	(D)	Stretch	
31.	In a well o	onditioned triangle, no a	ngle should be less t	han:	
	(A)	30°	(B)	40°	
	(C)	50°	(D)	60°	
32.	Number of	f arrows accompanying e	ach chain :		
	(A)	12		10	
	(C)	8	- Water	6	
173/	2015		6		A

33.	In one set	ing up of the level the maximum numb	er 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 also	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 closin	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 requir	ed is :	
	(A)	atleast 3	(B)	atleast 4
	(C)	atleast 5	(D)	atleast 2
41.	Curvatur	e effect of the earth is taken into accou	nt in	
	(A)	Geodetic survey	(B)	Plane survey
A	(C)	Plane table survey 7	(D)	Hydrographic survey 173/2015 [P.T.O.]

42.	The T- sq	uare is used for drawing:		
	(A)	Vertical	(B)	Horizontal
	(C)	Inclined	(D)	Curve
43.		nt warping of the board ————		
	(A)	Packing	(B)	Wooden block
	(C)	Battens	(D)	Blades
44.	The first	dimension line should be placed atle	east:	
	(A)	10 mm from the construction line	(B)	12 mm from the construction line
	(C)	8 mm from the construction line	(D)	9 mm from the construction line
45.		of the included angle of a hexagon is		
	(A)	720°	(B)	540°
	(C)	900°	(D)	360°
46.	The angle	of inclined letters :		
	(A)	30°	(B)	60°
	(C)	45°	(D)	75°
47.		ard size of B2 imperial drawing is:		
	(A)	700 × 600	(B)	800 × 600
	(C)	800 × 500	(D)	700 × 500
48.	The lowes	t part of the structure which transn	nit the loa	ad to the soil is :
		Superstructure		Basement
	(C)	Plinth	(D)	Substructure
40	4			
49.		mmed Ao sheet designated by ISO i		
	(A)	1 m <sup>2</sup>	(B)	0.5 m <sup>2</sup>
	(C)	0.25 m <sup>2</sup>	(D)	0.125 m <sup>2</sup>
50.	A right an	gled parallelogram with its opposite	sides are	e equal :
	(A)	Pentagon	(B)	Triangle
	(C)	Rectangle	(D)	Trapezium
173/2	2015	Q		

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

A

9

173/2015 [P.T.O.] 59. Volume of a cylinder is given by:

(B) m<sup>-1</sup>

(D) mlh

60. The equation 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 volume of a cube with each side measures 2 m is:

(B) 8 m<sup>2</sup>

(D) 8 m<sup>3</sup>

62. The value of sine 90° is:

(B) 0

(C) 5

(D) 1/\sqrt{2}

63. The value of  $1 + \tan^2 \theta$  is:

(B)  $\sec^2 \theta$ 

(C)  $\cot \theta$ .

(D)  $\sec \theta$ 

64. The value of sin 2A:

(A) 
$$1-\sin^2 A$$

(B) 1-cos2 A

(C)  $2\sin A/\cos A$ 

(D)  $2\sin A\cos A$ 

65. One chain is:

(A) 22 yards

(B) 11 yards

(C) 27 yards

(D) 10 yards

66. The base unit of length in S.I system :

(A) Yards

(B) Meter

(C) Feet

(D) Inch

173/2015

10

A

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 posi	ition of 1 m per second		
	(B)	Rate of change of one	radian per second		
	(C)	One radian per secon	d		
	(D)	Watt			
70.	A combin	ation of two reverse cur	rve used to avoid inter	vening obstructions like	buildings etc :
	(A)	Simple curve	(B)	Compound	
	(C)	Reverse	(D)	Deviation	
71.	A quantit	y having both magnitu	de and direction is:		
	(A)	Scalar	(B)	Scale	
	(C)	Vector	(D)	Co-ordinate	
72.	The eccer	tricity of a parabola is	usually;		
	(A)	>1	(B)	<1	
	(C)	1	(D)	<b>≠</b> 1	
73.	The value	e of "g"(acceleration due	e to gravity) is :		
	(A)	9.8 m/s <sup>2</sup>	(B)	8.9 m/s <sup>2</sup>	
	(C)	9.6 m/s <sup>2</sup>	(D)	98 m/s <sup>2</sup>	
74.	The chan	ge in dimension per un	it dimension of a body	is called:	
	(A)	Stress	(B)	Strain	
	(C)	Tension	(D)	Plasticity	
A			. 11		173/2015 [P.T.O.]

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 optics service et	il instrument used in	modern surveying, arcl	naeology, investigation and for militar
	(A)	Theodolite	(B)	Total - station
	(C)	Dumpy level	(D)	Prismatic compass
78.	An triang	gle is obtain by joinin	g the pole, zenith and	any star on the sphere by arc of grea
	(A)	Spherical triangle	(B)	Celestial triangle
	(C)	Astronomical triang	de (D)	Terrestrial triangle
79.	The scien without b	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 rever	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
173/	2015		12	A

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	r 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	y in 2014 :	
	(A)	Jean Tirole	(B)	Hiroshi Amano
	(C)	Eric Betzig	(D)	Patrick Modiano 173/2015
A			13	[P.T.O.]

92.	Who was	the author of the work 'Lanka M	Aardhanam'?		
	(A)	Pandit K.P. Karuppan	(B)	Kumaranasan	
	(C)	Mannathu Padmanabhan	(D)	Poikayil Yohannan	
98.	The rena	ming of Planning commission ca	lled 'NITI Aa	yog' was formed on :	
	(A)	8th February 2015	(B)	1st January 2015	
	(C)	11th January 2015	(D)	8th December 2014	
94.	'Saptanga	Theory' of state was associated	with:		
	(A)	Aristotle	(B)	Patanjali	
	(C)	Megasthanese	(D)	Kautilya	
95.	The first the Presid	Kerala State Political Conference dentship of :	ce was held o	on 23 <sup>rd</sup> April 1921 at Ottap	palam 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 increasing —	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 Cunningham	(B)	B.K. Thaper	
	(C)	John Marshall	(D)	Faucett	
99.	The Gover	nment of India appointed the 'H	unter Commi	ttee' to investigate into and	d report on :
	(A)	Wagon Tragedy	(B)	Education Committee	
	(C)	Jallianwalla Bagh Massacre	(D)	Famine Commission	
100.	Melmund	u kalapam' was started by	co	mmunity.	
	(A)	Pulaya	(B)	Kurichya	
	(C)	Ezhava	(D)	Channar	
173/	2015		14		
			W. W.		A