Question Paper and Final Answer Keys for the post of Surveyor

Written Recruitment Examination for filling up of the post of Surveyor in APWD was held on 19/02/2023 from 2.30 pm to 4.30 pm at Port Blair. The Question Paper and the Final Answer Keys of the written examination received from the agency engaged for conduct of examination based on the claims & objections is hereby published.

FINAL ANSWER KEY FOR THE POST OF SURVEYOR

		-							
Q.No	Correct		Q.No	Correct		Q.No	Correct	Q.No	Correct
	Option			Option	ļ		Option		Option
1	A		26	В		51	C	76	D
2	В		27	D		52	В	77	А
3	А		28	В		53	А	78	C
4	D		29	D		54	В	79	D
5	A		30	A		55	C	80	В
6	D		31	D		56	D	81	D
7	D		32	В		57	C	82	D
8	В		33	D		58	В	83	D
9	С		34	D		59	С	84	-
10	A		35	A	1	60	Α	85	В
11	С		36	D	1	61	В	86	А
12	A		37	В	1	62	Α	87	В
13	D		38	D	1	63	С	88	D
14	D		39	D]	64	В	89	В
15	C		40	C		65	C	90	А
16	-		41	В		66	В	91	А
17	В		42	В	1	67	Α	92	В
18	A		43	В	1	68	В	93	А
19	C		44	В		69	В	94	C
20	A		45	A]	70	Α	95	В
21	В		46	A		71	C	96	В
22	В		47	C		72	D	97	В
23	A		48	В		73	A	98	A
24	C		49	В		74	В	99	C
25	A		50	В		75	A	100	В

SET-A

Note: Q. No. 16 & 84 are treated as Null & Void due to Error in the Question/Option, hence evaluation of OMR is done out of 98 Questions

Andaman Public Work Department

T	rade – Surveyor		G	roup – A
A	ll question is carrying equal marks. C	July one answer is correct.	Time : 2.	0 hours
1.	Determining the relative positions of by means of direct or indirect measure			
ć	called asa) Surveying	b) Levelling		()
	c) Measuring			
0	·	d) Contouring	1	2
has	In which surveying, shape of earth is t		ŧ)
	· · ·	b) Geodic surveying		
~	c) Topographic surveying	d) Geological surveying	¢	2
3.	The ratio of map distance to correspon)
	r n	b) Representation factor		
	c) Reciprocating factor	d) Rectarring factor	1	>
4.	Which among the following is one of		()
	a) Taking measurements	b) Covering entire area		
	c) Determining the elevation difference			`
3.	The formula for shrunk scale can be g		()
د	a) Original scale*shrinking factor			
	c) Vernier scale* shrinking factor			
6.	Which of the following is made in con	nection with the construction of si	iects, wa	
	supply systems, sewers?	3 × 101 2 - 3	\$ <u>.</u>)
	a) Traverse surveying	b) Hydrographic surveying		
	c) Cadastral surveying	d) City surveying		`
7.	Most accurate method of direct measu		()
	a) Passometer	b) Pedometer		
	c) Theodolite	d) Chaining		
8.	What is used for measuring offsets, bu architects?	t it is often used by building surve	yors or	
	a) Plum bob	b) Butt rod	()
	c) Pogs	d) Laths		
0	Metric chains are generally available in		()
~•	a) 15m	b) 120m		
	c) 20m	d) 25m		
10	Tallies are fixed at every met		. ()
	a) 1	b) 2	-	-
	c) 2.5	a) 0.5		
11	Length of Gunter's chain is		()
, , ,	a) 10ft	b) 33ft	·	-
	c) 66ft	d) 100ft		
	What is the length of Ranging rod com	,	()
	a) 2 m	b) 3 m	``	,
	a) 4 m	d) 5 m		
	wy the rate			

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3. Which of the following are not sour	ces of errors?	()	
a) Instrumental	b) Personal			
c) Natural	d) Artificial			
t. Which of the following is the sight	ng device?	()	
a) Compass	b) Spirit level			
c) Plumbing fork	d) Alidade			
5. What instrument is used for centerit	·	()	
a) Compass	b) Spirit level			
c) Plumbing fork	d) Alidade			
5. What is the size of a field book?	· · · · · · · · · · · · · · · · · · ·	()	
a) 20 cm x 20 cm	b) 25 cm x 20 cm			
c) 20 cm x 25 cm	d) 25 cm x 25 cm			
7. Identity the following symbol.		(),	
. Rentry me tonowing symbol.				
\$ 1 \$ \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				
a) Well	b) Earthwork dam			
) Baumilous millor	d) Statue			
Which branch of surveying is used t	o find the elevations of given points w	ith resp	ect to	
given or assumed datum?		()	
a) Levelling	b) Contouring			
c) Traversing	d) Plane table surveying			
). Turning point is also called		()	
a) intermediate point	b) level point			
c) change point	d) end point			
). Which of the following is a persona	error?	()	
a) mistakes in manipulation	b) atmospheric ref	raction	. ,	
c) settlement of tripod or turning po	ints d) wind vibrations			
L. The formula for calculating R.L car	be given as	()	
a) H.I+F.S	b) H.I-F.S			
9 6 3 K D C	d) H.I+B.S			
Two contour lines of different cleve	tions unite to form one line only in the	e case of	f_()	
a) Hills	b) Vertical citi			
c) Horizontal cliff	d) Overhanging Cliff			
3. Which the following is not a use of	contour maps?	()	
a) Drawing of plan	-			
b) Determination of intervisibility b	etween two points			
c) Tracing of contour gradient and l	ocation of route			
The of the station of another open anits				
A is the more transfer instruction	ent designed for the measurement of ho	orizonta	i and	
tortion analys		()	
vertical angles.	b) Dumpy level			
a) Survey chain	d) Telescope			
c) Theodolite	, ,	()	
5. How many types do theodolites cla	b) 3			
a) 2	a) 5			
c) 4				

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26. The plate level can be centered wi	th the help of	()
a) Focusing screw	b) Foot screw	,	,
c) Tangent screw	d) Clip screw		
27. The value of multiplying constant		{)
a) 60	b) 80	,	,
c) 90	d) 100		
28. The sum of interior angles must be	-	(}
a) (2N+4) right angles	b) (2N-4) right angles	l	,
c) $(2N+4) * 180$	d) $(2N-4) * 180$		
wy Course in the course of the	m farmer 200		
29. Departure can be given as		()
a) $D = 1 \cos \theta$	b) $D = i \tan \theta$		
c) $D = 1 \operatorname{cosec} \theta$	d) $D = 1 \sin \theta$		
30. Which among the processes having	more accuracy in its output?	é)
a) Total station	b) Plane table surveying	`	
c) Chain surveying	d) Compass surveying		
31. Possibility of error in plane table su		()
a) Negligible	b) Zero	(,
c) More	d) Less		
32. Dumpy level is used for	the entrology	{)
a) Finding point to point distance	b) Finding the elevation difference	`	
c) Finding the traverse area	d) Finding the perimeter of		
	the total station for obtaining the best of		4
	b) West		τ,
a) East	d) North		
c) South .	can be used in which among the follows	ino	
	tean to used in which allong on rollow)
software directly?	b) STAAD PRO	ł	/
a) Primavera			
c) Autodesk Revit	d) Surfer in the formation of the actronomical tria	nale?	1
	in the formation of the astronomical tria	mgro:	ł
a) Zenith	b) Meridian		
c) Horizon	d) Azimuth	1	``
36. The velocity of sound in sea can be		ર)
a) Refraction	b) Reflection		
c) Polarization	d) Sounding machine	1	``
37. Rain gauge is used for		()
a) Hydrological survey	b) Measuring precipitation		
c) Marine survey	d) River survey	,	``
3d. Rain gauge is expressed in terms of	6 N N 4	()
a) Decimeters	b) Meters		
c) Centimeters	d) Millimeters	,	`
	be used in marine survey?	{)
39. Which of the following devices can	b) GPS	•	

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on the drawing sheet shrinks du	ales is used to determine the original scale to atmospheric conditions?	()
a) Vernier scale	b) Plane scale		
c) Shrunk scale	d) Diagonal scale		
C) SHITHE STATE THE OF		()
ALLich starl carbon	b) Galvanized mild steel		
a) Conner coated iron	d) Iron		
of copper content from the ta	llies refers to	()
	b) Metric chain		
	d) Mild steel		
42 Own Guilang is somal for	Gunter's chains.	()
	Chains are made up of		
	-		
c) oo		()
	b) 100		
*			
c) 50		()
	h) 25 mm		
,			
c) 30 mm		(\rangle
	ALC LOQUICO IV. CALLO PARTO	-	
•	-		
c) 15		()
	Son ground is doine by		
c) Wooden pegs	a) part into a	wealth? (ſ
48. Which of the following type of	I SUIVE YINE IS USED IN APPORTU		-
a) Military surveying	a) Engineering SHYMPHID		
	() mightering set () mig	{	
49. What is Surveying?	the since of since prints with respect to	a given or	
a) Surveying is used to find th	e elevations of given frames with respect	· @· · ···	
assumed datum	where the chieve on the surface of	f the earth	}
b) Surveying shows the relativ	c positions of the objects on the summer a	nterval	
c) Surveying is to find the elev	vation of points naving the same contour.		
d) All of the mentioned	a standard muchic pressel	ino? (
50. Which of the following doesn	't describe the use of hydrographic survey	111 2 , 1	
 a) Nautical charts for navigation 	on DI CSEADRAMME INCAN SOM SOLO		
A Low month	(I) MAKING BIRELEIGUUM III MA	in arra?	{
51. Which of the following type o	of surveying can be employed in a magnet		۲,
a) Compass surveying	Ol HINACISC STUARATURE		
5 mit . 4. 2.3 . A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	d) Theodolite surveying	wid he	
52. In case, to get a well-proportion	oned or well-shaped triangle, no angle sho	111110 1.30	
less than		(
a) 15°	b) 30°		
311.2	d) 25°		

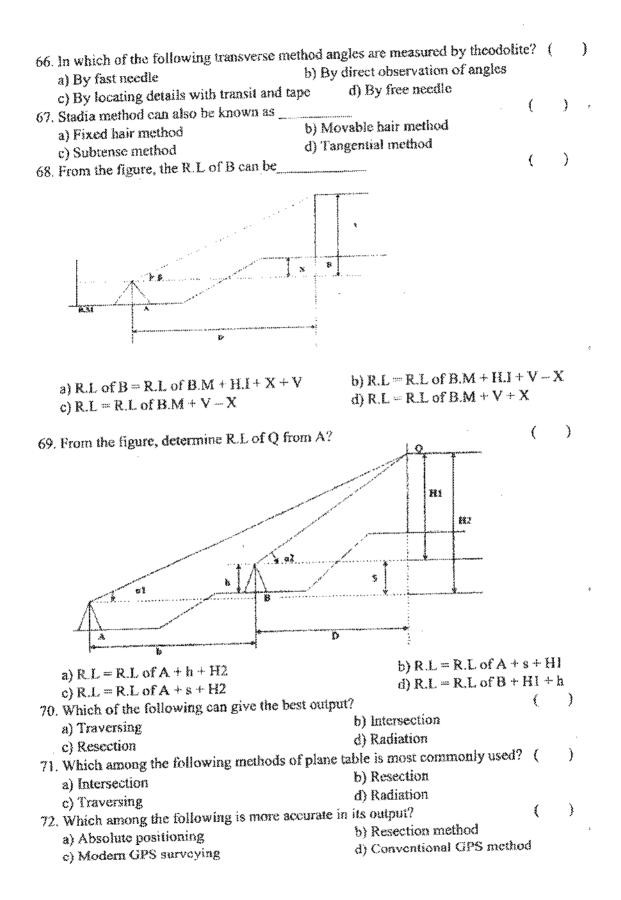
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	for setting right angles is a	()
a) Cross staff	b) Optical square		
c) Prísm square	d) Site square		n.47 /
	itions of the stations or terminal points of su	үсу ш	161 (
a) Arrows	b) Pegs		
c) Ranging rods	d) Plumb bob		、 、
55. Which of the following is the s		()
a) Traverse table	b) Johnson table		
c) Coast survey table	d) Plane table	,	
56. What is the last step in chain s		Ę)
a) Reconnaissance	b) Marking		
c) Fixing	d) Running survey lines		,
	r tape measurements are entered is called the		Į.
a) Assistant book	b) Surveyor book		
c) Field book	d) Survey book		
8. Whenever possible, a survey st	ation must be fixed with reference to a mini	num	
number of permanent objects.		<)
a) 1	b) 2		
c) 3	d) 4		
	L. \ C"Erson Er		
a) Temple	b) Church		
c) Police station	d) Statue		
0. Which line passes through true		1	١
		()
a) True Meridian	b) Magnetic Meridian	()
c) Arbitrary Meridian	b) Magnetic Meridian d) Dip	()
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be 	 b) Magnetic Meridian d) Dip arings to quadrant bearings? 	()
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 	()
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 c) 360 - 22°30 	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 d) 270 - 22°30 	(·
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 c) 360 - 22°30 2. Convert 122°30' whole circle be 	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 d) 270 - 22°30 earings to quadrant bearings? 	())
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 c) 360 - 22°30 2. Convert 122°30' whole circle b a) 180 - 122°30 	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 d) 270 - 22°30 earings to quadrant bearings? b) 122°30 	(·
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 c) 360 - 22°30 2. Convert 122°30' whole circle b a) 180 - 122°30 c) 360 - 122°30 c) 360 - 122°30 	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 d) 270 - 22°30 earings to quadrant bearings? b) 122°30 d) 270 - 122°30 	,	ja J
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 c) 360 - 22°30 2. Convert 122°30' whole circle b a) 180 - 122°30 c) 360 - 122°30 3. Horizontal axis is also called	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 d) 270 - 22°30 earings to quadrant bearings? b) 122°30 d) 270 - 122°30 	(·
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 c) 360 - 22°30 2. Convert 122°30' whole circle b a) 180 - 122°30 c) 360 - 122°30 3. Horizontal axis is also called	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 d) 270 - 22°30 earings to quadrant bearings? b) 122°30 d) 270 - 122°30 b) Outer axis 	,	ja J
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 c) 360 - 22°30 2. Convert 122°30' whole circle b a) 180 - 122°30 c) 360 - 122°30 3. Horizontal axis is also called a) Inner axis c) Trunnion axis 	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 d) 270 - 22°30 earings to quadrant bearings? b) 122°30 d) 270 - 122°30 b) Outer axis d) Line of sight 	(, , , , , , , , , , , , , , , , , , ,
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 c) 360 - 22°30 2. Convert 122°30' whole circle b a) 180 - 122°30 c) 360 - 122°30 3. Horizontal axis is also called a) Inner axis c) Trunnion axis 4. To measure the horizontal angle 	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 d) 270 - 22°30 earings to quadrant bearings? b) 122°30 d) 270 - 122°30 b) Outer axis d) Line of sight e which of the following is the first step? 	,	ja J
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 c) 360 - 22°30 2. Convert 122°30' whole circle b a) 180 - 122°30 c) 360 - 122°30 3. Horizontal axis is also called	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 d) 270 - 22°30 earings to quadrant bearings? b) 122°30 d) 270 - 122°30 b) Outer axis d) Line of sight e which of the following is the first step? b) Levelling instrument 	(, , , , , , , , , , , , , , , , , , ,
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 c) 360 - 22°30 2. Convert 122°30' whole circle b a) 180 - 122°30 c) 360 - 122°30 3. Horizontal axis is also called	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 d) 270 - 22°30 earings to quadrant bearings? b) 122°30 d) 270 - 122°30 b) Outer axis d) Line of sight e which of the following is the first step? b) Levelling instrument d) Clamping the plates 	()
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 c) 360 - 22°30 2. Convert 122°30' whole circle be a) 180 - 122°30 c) 360 - 122°30 3. Horizontal axis is also called	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 d) 270 - 22°30 earings to quadrant bearings? b) 122°30 d) 270 - 122°30 b) Outer axis d) Line of sight e which of the following is the first step? b) Levelling instrument d) Clamping the plates n another vernier reading shows / also shows 	(, , , , , , , , , , , , , , , , , , ,
 c) Arbitrary Meridian 1. Convert 22°30' whole circle be a) 180 - 22°30 c) 360 - 22°30 2. Convert 122°30' whole circle b a) 180 - 122°30 c) 360 - 122°30 3. Horizontal axis is also called	 b) Magnetic Meridian d) Dip arings to quadrant bearings? b) 22°30 d) 270 - 22°30 earings to quadrant bearings? b) 122°30 d) 270 - 122°30 b) Outer axis d) Line of sight e which of the following is the first step? b) Levelling instrument d) Clamping the plates 	()

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a) Sounding	a. waaanii aabuu oo	low the water surface is called b) Chaining	. ()
c) Traversing	۲			
LJ MANNESING	ĕ	d) Compass traversing		
74. What is leng	th of the sounding rod	or pole?	(}
a) 7-8 m		b) 5-8 m		-
c) 10-18 m		d) 15-18 m		
75. Which of the	following is not used	in the tracking system?	()
a) Multiple fi	equency	b) Dual frequency		
c) Single free	uency	d) Military navigation		
76. Which of the	following indicates the	e objective of road survey?	(}
 a) Specific gr 	avity	b) Density		
c) Pavement	design	d) Detailed layout of road	way	
77. Township su	vey is also known as _		()
a) Congressic		b) Harbor survey		
c) Land surve	У	d) Airport survey		
78. Levelling dea	ls with measurements	in a	()
a) Horizontal	plane	b) Inclined plane		
c) Vertical pla	me	d) Both vertical and horizo	mtal p	lane
79. Which of the	following is not a met	hod of levelling?	()
a) Barometric	levelling	b) Trigonometric levelling		
c) Spirit level	ling	d) Traverse leveling		
30. Direct ranging	g is done when the two	ends of the survey lines are	(}
a) Invisible		b) Intervisible		
c) Visible from	n a particular point	d) Faraway from each othe	T	
II. AGMSY, CIC	UA, EKQWC, ? , IOU	JAG, KQWCI	()
A) FMYES	(B) FMSYE	(C) GNSYD (D) GMSY	E	
2. M is the son o	f P. O is the granddau	shter of O, who is the husband of P. Ho	w is N	/ relat
o O?	and the same for a second		()
A) Father	(B) Daughter	(C) Mother (D) Son	Ň	,
	· · ·			
		sion', '+' means 'subtraction' and '+' mea ing equations is correct?	ns ()
4) 16 × 5 ÷ 10 ÷ ·	4 - 3 = 19 (B)	$16 - 5 \times 10 + 4 + 3 = 12$		
C) 16 + 5 + 10 × 4	4 - 3 = 9 (D)	$16 + 5 - 10 \times 4 + 3 = 9$		
4. Wrîter : Pen :	:?		(}
T. VIXING				

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85. Statement- "Buy pure and natural Oil of company HOL" - An ad, in a newspaper,

1. People do not mind paying more for pure and natural oil. () Assumptions-II. Artificial oil can be prepared.

A. If only assumption I is Implicit

B. If only assumption II is Implicit

C. If either I or II is Implicit

D. If neither I nor II is Implicit

E. If both I and II are implicit

86. Which of the following is the branch of Artificial Intelligence? } £ b) Cyber forensics a) Machine Learning

d) Network Design c) Full-Stack Developer

and) adequate _____ (B) Food, Water and Shelter

(A) Water, food and shelter

(D) Water, shelter and food (C) Shelter, food and water

88. Which of the following machine requires input from the humans but can interpret the) £ outputs themselves? c) Agents d) AI system a) Actuators

89. Statements: All purses are mobile. All mobile are phones. Some mobile are rings. No ring Ć) is purse. Which Conclusion is right?

(b). Some phones are purse (a) Some purse is ring.

(d) All rings are mobile. (c) No mobile is ring

b) Sensor

90. A man starts walking towards Northeast diagonally from the left corner of a square plot and turns right after reaching the centre of the plot. After some distance, he again turns right and continues walking. Which direction is he facing now? {.

(d) North (c) East (b) West (a) South { } 91 . Agnimitra was the hero of Kalidasa's play (B) Mega Dhutam (A) Malavikagnimitram (D) Sakunthalam (C) Raghu vamsam } í 92. The holy book of the Sikhs is _____ (D) Ramayanam (B) Granth Sahib (C) Gita (A) Mahabharatham

93. The indus Va	alley, civil	ization had over	rrseas trade contacts w	ith	()
(A) China	(B) S	Spain	(C) Egypt	(D) Russia		
94. Which of the a) analog	following b) di	type of comp gital	iter is mostly used for c) hybrid	automatic opera d) remote	tions?	,
95. Which of the a) AN	following b)	is the first net SNARC	ral network computer c) RFD	? d) AM	()
96. Which of the and retrieving the a) Graphics packc) Spreadsheet pack	eir persons age	d information?	rs individuals to use p ersonal assistance pac d) Animation pack	kage	rs for (stori)
97. From the give letters of the give	en alterna en word: C	tive words, sel HRONOLOG	eet the word which ca ICAL	nnot be formed i	asing (the)
a. CALL			b. ANALOGY			
c. CALICO			d. LOGIC			
98. As per 'Augu	st Offer 1	940' the Const	itution of India would	be drawn by	()
A. Indians			B. House of Lords			
C. Princely States	S		D. House of Comm	nons		
99. Square root o	f 0.9 is				()
A) 0.0300			B) 0.3300			
C) 0.948			D) 0.8123			
100. Logarithmic	value of 1	000 is			()
A) 1.000		B) 3.000				

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