Question Paper and Final Answer Keys for the post of <u>Draughtsman Gr-III (E&M)</u>

Written Recruitment Examination for filling up of the post of Draughtsman Gr-III (E&M) in APWD was held on 19/02/2023 from 9.30 am to 11.30 am 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 DRAUGHTSMAN GR.III (E & M)

SET-A

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

Note: Q. No. 84 & 85 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

Trade - DM (M&E)

Group - A

All question is car	rying equal marks, (mly one answer is o	correct. 'I	ime: 2.0	hours
and Polar Coordin		oth vertical and ho	lrafter can utilize the orizontal lines. A line :	-	-
A. Horizontal		B. Vertical			
C. Inclined		D. None of these	:		
2. In U.S. structura expressed in feet a		lrafting, all dimens	ions of this leagth are	e wsually ()
A. One inch or over		B. One foot or ov	/er		
C. One yard or over		D. One rod or ov	er		
3. Inserting blocks insure that		sually requires exa	cting placement. The	drafter : (should)
A. O Snaps	B. Ortho	C. Grid	D. Dynan	nic Input	
4. The maximum a	nd minimum sizes of	a feature are ident	ified by ate	olerance	•
A. Limits	B. GD&T	C. Reference	D. Allowance	()
5. Welding drawing	gs are a special type (of this kind of draw	Ang:		
A. Symbol	B. Perspective	C. Assembly	D. Isometric	() .
6. PDM is the acros	aym for:				
A. Project drawing r	nanagement	B. Product drawi	ng manipulation		
C. Product data man	agement	D. Project data m	anipulation	()
7. Drafters should a cylindrical view of	use a in a s a threaded hole.	ection view of a me	chanical part that inc	ludes th	e !
A. Center line	B. Hatch line	C. Poly line	D. Dimension lin	e ()
8. In order to create drawings first.	e an accurate assemi	oly drawing the dra	fter should create the	*	gggrave.
A. Detail	B. Title block	C. Parts list	D. Isometric	. ()
9. When filling an a	irea with a hatch pat	tern in Auto-CAD	the drafter needs to b	e able to)
A. See the entire box	inding area to hatch	B. Set Ort	ho on	()
C. Turn ISO grid off		D. Set the	layer to Defpoints		
10 Understanding t	he Cartesian coordir	nate system will hel	p the beginning draft	er	k
A. Control the accur-	acy of the drawing	B. Produc	e a visible grid system	(.),
C: Select a different	text style	D. Choose	e various line types	: · · ·	
11. This is a thin so arrowhead or dot:	lid line directing atte	ution to a note or d	limension and startin	g with n	n
A. Dimension line	B. Extension line	C. Leader	D. Specification	()

12. The size of a sha	per is given by	4			r.	,
A) Length of stroke		B) Motor power	r	Ę)
C) Mass of machine		D) Height of n	achine			
13 Under which type	e of the following fire,	metal should i	e included?			
A) Class -A	B) Class -B	C) Class -C	D) Class		()
14 In which of the fo	dlowing type of proje	ction, one plan	e can make any	angle from h	oriz	ontal
A) Isometric projection	m	B) Orti	ographic project	ion	()
C) Oblique projection			D) Perspective p	projection		
	owing is not a type of	assembly draw	ing ?			
A) General assembly			t assembly drawi	ng	()
C) Design assembly of		D) Uni	nstallation assen	bly drawing		,
ra Tälkan ann alli	t is symmetrical, it is al view is appropriate	not necessary i in this situation	n create a comp n?)lete sectional	vie	¥¥,
A) Half sectional vie			tinuous section		()
C) Removed section		D) Broken out	section			
= -	a objective of the 5S c	oncept?				
A) To reduce the was					()
B) To increase the pr	oductivity while reduc	ing the wastage	of money			
	stage of money and inv					,
	stage of money and tir					
	of main title is kept -					
A) 2 to 4 mm	B) 4 to 6 mm	C) 6 to 8 mm	D) 10 to) 12 mm	()
	ows a symbol, what t	ype of symbol i	s tinks ?	·		
					()
A) Straight knut	ling on shaft	B)	Diamond knurl	ing on shaft		
C) Square on sh		D)	Thread on shaf			5
•	ghness grades N11 an	d N10 is				
A)		B) 📉	7		(}
c) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		D) C) 		()
21. Which one of t	he following is not an		ng gevice:	mbination set	*	,
A) Angle iron	B) Bevel Protector	C) Sine bar	(J) Co	menicali sel		

A).	20H7/g11	B) 20H7/p6	C) 2	0H7/z11	D) 20E8/g11		
23.	Which of the fo	llowing commands is	used (o create a rec	tangle?	()
A)	Line	B) Círcle		C) Ellipse	D) Are		
24.	Identify the fro	nt view of isometric v	iew gi	ven below?			
	933.00 903.00 903.00						
						,	,
	राजकारी					()
f .ex	nggga ann ag an ag	ous		· · · · · · · · · · · · · · · · · · ·			
SASSASSA							
A) \$		Yani		B) []			
): 		1015 1316 347		7			

C) §				D)	Ten an Park of the Control of the Co	,	
25.	Which of the fol	lowing is a type of ch				()
,	Slide fit	B) Force fit		ush fit	D) Tight fit		
26.	What is shown i	n thần lines on struct	eral pi	ert given in th	e picture?		
						(}
a >	Y		B)	Hatching		`	,
A)	iron metal		D)	Hollow part			
C)	Broken part	vs a symbol, what typ	·	-			
	i se bicente sun	1.6 ≥ 1.00 ≥ 1.00 ± 1.	<i></i>				
٠						\$	`
	WALTER CONTRACTOR OF THE PROPERTY OF THE PROPE						,
aj s	urface is conside	rable for machining	B) M	•	be removed by machin		
		al is not possible			pecial surface specifica	tion	
28. V	What is the full i	form of B.I.S of stand	iardize			,	`
A)	Bureau of Ind	ian security	B)		an Standards	()
C)	Bureau of Ind	ian Standards	D)	Bureau of Ir	nternational Standards		

22 y'hich of the following clearance fit comes under Hole Basis System?

29. Identify the rivet as shown in figu	ks		()	
A) A simple rivet	B) Coun	ter sunk rivet from back side		
C)Counter sunk rivet from front side	D) Cour	ter sunk rivet from both fron	t side & back	side
30. What is the color code for metal	waste hin?			
		B) Red	()
(A) Blue (C) Yellow	(D) Green		
31. As per Indian Standards, size of	1)3 drawing b	ourd is		
A) 500 × 350 × 15 mm		B) 700 × 550 × 15 mr	n	
() V) 200 x 320 y 12 mm				
C) 1000 × 700 × 25 mm		D) 1500 × 1000 × 25 mm	,)
32. A mini drafter serves the purpo	se of all these.	, except	(,
A) Scales B) Set squares	C) Protractor	D) Compass	,	`
33. A sphere can be described in ho	w many views		(,
A) Four B) Three	C) One	D) Two	,	`
34. The depth of a feature can be di	mensioned in		()
A) Front view	В) Тор	view		
C) Both top view and side view	D) Side	e view		
35. How many units are available in	a AutoCAD?			
N/4	C) 3	D) 2	()
36. Which flat belt drive system has	s two pulleys	mounted on driven shaft an	d one pulley	
on driving shaft?			()
A) Cone pulley drive	B) Mu	tuple belt drive	;	
CN East and loose nulley drive		cey pulley drive		
37. In aligned system of dimension	ing, the dime:	ssions may be read from		
A) Bottom or right-hand edges	В) Во	ttom or left-hand edges	()
·	D) Or	nly from left side		
C) Only from bottom 38. When two prisms intersect at r	ight angle, th	e curve of intersection is	()
B) E10	iptical arc	C) Curved une	D) Straigh	
39. Which type of coupling is used	for connectin	ig shafts whose axes are pai	rallei bat not	ય
in one line?			·)
A) Oldham s coupling B) Universal	coupling	C) Flange coupliny D) ?	Vone of these	

40. One critical issu	ie, drafters need to pa	y close attention to 19	ine	(}
A) Size of the sheet	B) Designers intent	C) Scale factor	D) None of	these	
41. Which type of v	viring gives more mee	hanical and fire prote	ection?	()
A) - Cashing capping	g wiring B) Ba	tten wiring			
C) Conduit wiring	D) Cl	eat wiring			
42. Read the below	Electrical Signs or S	ymbois.		()
			·		
A) Socket 2 pin, 3 p	oin B) Ceiling Ro	ose 2-pin, 3-pin C) T	Two-way switch	D)	Lamp
43. Read the belo	w Electrical Signs or :	Symbols.		()
	-0				
A) Diode B) Ph	oto diode C) Li	ght emitting diode (LE	D) Amp	ifier	
44. Read the below	Electrical Signs or Sy	mbols.			
	av, and an artist of the second of the secon			()
A) DIAC	B) SCR	C) TRIAC	D) FET		
	llowing convention is	used for Aluminium?		€)
c.			d		
46. The areas of the	two successive sizes ()
A) 1:5	B) 1:4	C) 1:2	D) 1:10		,
	ansion of ARC in first		a Pinantation	ţ	
A) Airway Bleeding		B) Airway Breathing D) Accident Breathi			
C) Airway Breathin	g Carefulness			încrez	sed?
	en to the value of eart		D) Infinity	()
A)Remain same	B) Increases	C) Decreases	Cr / MANNEY	,	,

49. Where the varia	bie sir capacito	ers are	used? .		£.)
A) Radio receivers	B) Osc			D) RF filter	'S	
an What is the nam			flux density aiways in	gging behind the	magnet	ising
force?					`	,
A)Hysteresis			yC) Magnetic induction		,	
51. Which effect is p	roduced, if the	CHITC:	at is passed through a	conductor?	()
A) Thermal effect	B) Ma	gnetic (effect C) Chemical e.	ffect D) Electro	static et	
52. What is the goal	of the occupati	ional h	ealth safety?		()
A) To maintain disci	ipline		B) To co-operate with	co-workers		
C) To provide a safe	work environm	ent	D) To keep the work			
	lition, if zero cu	arrent i	is flowing through the	galvanometer in '	Wheat:	stone)
bridge?	B) Unbalance	A	C) Short-circu	nited D)	Open c	ircuited
A) Balanced	,	~L			()
54. What is unit of i	B) Henry		C) Ampere turns	D) wb/m2		
A) Weber	,	ervuskeft			(,) 3 3
55. What is the outp	B)1.5 V	exxocatri	C) 1.8 V	D)	2.5 V	
A) 1.2 V	•		ted with reverse polar	ity in a narallel co	mbinai	- Barra
56. What is the effective circuit?	ci ii one ceii is x	(4)	CONTRACTOR OF PARTIES.	acy ax m grown man or or	()
A) Voltage become 2	ero		B) Become open circu			
C) Will get short circ			D) No effect will func			
57. What is the outc	ome at the posi	itive pl	ste, after the chemica	i reaction in lead :	cid bat (ttery)
A) Sponge lead(Pb)		B) Lea	ad peroxide(PbO2)			
C) Lead sulphate(Pb	SO4)	D) Lea	ad sulphate + water			F
58. How the conduit	pipes are spec	ified?			()
A) Length in metre			ll thickness in mm			
C) Inner diameter in	rin	D) Ou	ter diameter in mm			
•		it ratec	l cable used to connec	t higher current le	ad?	
A) Voltage drop incr			ad current increases		{)
C) Voltage drop deci		D) Cal	ble damage due to heat			
•						
-60. Calculate the vo 240 volt and full loa	Itage regulation id voltage is 220	n in pe) volt ?	rcentage of the transfe	ormer if the no los	id volta (ige is)
A) 7.2 %	B) 8.3 %		C) 8.71 %	D) 9.09 %		
•		ng exp)	losion vent in a power	transformer?	()
A) Air releasing	B) Heat releas		C) Pressure releasing		ing	

	exer nonconstitute and tracks a 624 1	SENSALERY TOO HATSON OF AASTAS. SAA	REAL ?	٩)
A) Draws cool	ing air inside	B) Spreads the heat unife	ormly		
C) Exhausts the	e hot air outside	D) Revolves and reflects	the electromagnetic er	nergy	
63. Which erro	or if the energy meter	disc rotating continuo	usly on no load?	()
A) Speed emo;	B) Phase crror	C) Friction error	D) Creeping error	r	
64. Which is th	he semiconductor mat	eria!?		()
A Eureka	B Ebonite	C Manganin	D Germanium		
65. The basic	function of a circuit b	reaker is to		()
(A) extinguish t	the arc	(B) ionize the sur	ounding air		
(C) trAnsmit vo	dtage by arcing	(D) produce the as	re		
66. What is the	e purpose of back up	protection?		()
A) To increase t	the speed	B) To increase the	reach		
C) To leave no l	blind spot	D) To guard again	st failure of primary		
67. Which is th	e instrument used to c	traw parallel lines fast:	3	()
A) Set square	B) Ruler scale	C) Protractor	D) Roll-n-draw ru	ler	
68. The side op:	posite to right angle it	ı Right augled triangle	is called	()
A) Adjusant side	B) Hypotenuse	C) Opposit	e side D) Line	٠	
69. The sum of	the interior angle and	the corresponding exte	ernal angle is	. ()
A) 180°	B) 90°	C) 360°	D) :	20°	
79. Which of the	e following is NOT ma	ain types of engineering	drawing?	()
A) Mechanical er	ngineering drawings	B) Electrica	d Engineering drawing	,s	
C) Air engineerin	ng drawings	D) Civil Engineerii	ig drawings		1. 1. i
71. Scale of an in	istrument will be uni	form if	·	()
B. Control torque C. Both (a) and (t D. Damping torque	e varies directly as the	leflection angle	easuring low resistan	ce? ()
A) ducter ohmne	ter method B)	kelvin double bridge me	thod		:
C) ammeter-voltm	neter method	D) potentiometer m	ethod	٠	
73. Range of an e	dectrical instrument c	lepends on)
A) current	B) voltage	C) power	D) resistance प्रतिरोध	Į	

74. In which method V.P.?	of orthographic p	rojection the object is placed below H	.P. and bekin	163
(A) 1st angle projecti	on	(B) 2nd angle projection	(.)
(A) 1st angle projecti		(D) 4th angle projection		
The sale of the sale of	ee nrincinal plancs	in orthographic projection?	()`
(A) Frontal, horizonts		(B) Back, top, profile		
		(D) Front, Top, profile		
(C) Top, front, right s	pilis Sulbergrekver ke er kver	e of direct measuring instrument of r	oughness?	
		(B) Micro meter	()
(A) Micro interferom	eter	(D) Surface dynamometer		
(C) Profilometer		/wire is indicated by a series of numb	er,which is c	alled
	dius of sheet mem	AMERIC BY CHESTOCKETES CLA OF CATALOG CA.	- · · ·	ē
(A) Number size		(B) Gauge	()
(C) Standard size		(D) None of the above		
78. Which view in g	eneral is used to cr	cate a new drawing view which is onli	arged portion (of)
existing view?	(B) Three view	(C) Sectional view	(D) Detail v	view
(A) Named view	•	•	. ()
79. How the visibilit		Marine N. 1997	rue length	
(A) Full scale	(B) Enlarged scale	o the plane of projection, the resulting		will be
	misce is inimiel e			,)
(A) Straight line		(B) True length of edge		1
(C) True shape of the		(D) Reduced shape of the surface	{)
81. AGMSY, CIOU/	a, ekqwc, ? , iou		{	,
(A) GMSYE	(B) FMSYE	(C) GNSYD (D) FMYES		*a (39
(A) Son	(B) Daughter	hter of O, who is the husband of P. Hov (C) Mother (D) Father	*	,
83. If 'x' means 'add then which of the fol	ition' '-' means 'divis lowing equations is	ion', '+' means 'subtraction' and '+' mean correct?	ns 'multiplicat (ion',
(A) 16+5-10×4+	- 3 == 9 (B)	$16 - 5 \times 10 + 4 + 3 = 12$		
(C) $16 + 5 \div 10 \times 4$		$16 \times 5 \div 10 \div 4 - 3 = 19$		7
84 Writer : Pen :			()
	rtist : : Tailor Brush	(C) Painter (D) Teacher: Canva	is: Class	

85. Statement-"Buy pure and natural	Oil of company HOL" – An a	d. in a newspap	ær.	()
Assumptions- I. People do not mind pa	ying more for pure and natural o	il.		
II. Artificial oil can be pro	cpared.			
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. Statements: All purses are mobile.	All mobile are phones. Some	nobile are ring	s. No	ring is
purse. Which Conclusion is right?			()
(a) Some purse is ring.	(b) No mobile is ring.			
(c) Some phones are purse.	(d) All rings are mobile.			
87. A man starts walking towards Nor and turns right after reaching the contant continues walking. Which direction	tre of the plot. After some dist	corner of a squ ince, he again t	urns (plot right }
(a) East (b) West	(c) South	(d) North		
88. Which of the following is the branca a) Machine Learning b) (c) Full-Stack Developer	ch of Artificial Intelligence? Cyber forensics d) Network Design		()
89. Which of the following machine recouputs themselves? a) Actuators b) Sensor	quires input from the humans c) Agents d) AI system		ret th ())
90 . Agnimitra was the hero of Kalidas	sa's play		()
(A) Raghu vamsam	(B) Mega Dhutam			
(C) Malavikagnimitram	(D) Sakunthalam			
91. The holy book of the Sikhs is			()
(A) Mahabharatham (B) Ramay	ranam (C) Gita	(D) Granth Sa	hib	,
92. The Indus Valley, civilization bad (overseas trade contacts with		()
(A) Egypt (B) Spain	(C) China (D) R	ussia		
93. Van Mahotsav includes			() .
a) Planting and protecting trees	b) Destruction of trees should	d be curtailed		
c) Restoration of green cover d) A	All the above			
94. Public health depends on sufficient adequate	t amounts of good quality	safe drinking	(and)
(A) Water, food and shelter	(B) Food, Water and Shelter	,		
(C) Shelter, food and water	(D) Water, shelter and food			

95. Soil pollution can be confi	olled by	()
a) Reducing, reusing and recyc	ng of wastes		
b) Production of Biogas from a	riculture wastes and animal refuse		
c) Conducting awareness progr	mme to propagate organic farming		
d) All the above			
96. Which of the following ty	e of computer is mostly used for automatic operat	ions?	`
a) analog b) digita	c) hybrid a) temote)
97. Which of the following is a) AN b) AM	ne first neural network computer? c) RFD d) SNARC	(,
og which of the following pa	kage allows individuals to use personal computer	s for sto	ring
and retrieving their personal	nformation?	()
a) Personal assistance packagec) Spreadsheet package	b) Graphics package d) Animation package		
99. Who among the following	was the president of the Constituent Assembly?	()
A) Lal Bahadur Shastri	B) Dr. B.R. Ambedkar		
C) Dr. Rajendra Prasad	D) P. Upendra		
100. The Creamy Layer, cond	pt refers to	()
 A) The grouping based on soc B) The grouping based on east C) The grouping based on eco D) The grouping based on mi 	s omic status		÷
	Ny fivon ao		
•			