Department of Urban Planning

(Town Planning Wing)

POST: Junior Draftsman

Question Booklet & Answer Key

10.03.2024 (Sunday) Morning

Direc	etions (Q.No. 1 & 2)	Out of the four given	choices	, choose the correct	et synonym of the words
	given below:				
1.	Collate				
	A) criticize	B) cruel	C) gat	her	D) callous
2.	Patronage				
	A) donation	B) support	C) esp	ionage	D) beneficiary
Direc	etions (Q.No. 3 & 4) M	lark the correct antony	m of the	given word:	
3.	Anxious				
	A) happy	B) reluctant	C) cur	ious	D) apprehensive
4.	Implicate				
	A) absolve	B) complain	C) era	dicate	D) throw
Direc	etions (Q.No. 5 & 6)	Choose the correct pre	position	, out of the four of	ptions, to be filled in the
	gaps of the following	g sentences:			
5.	I feel quite done	now.			
	A) by	 B) up	C) at		D) from
6.	Indian economy is be	eset many pro	blems.		
	A) of	B) at	C) wit	h	D) by
Direc	etions (O.No. 7 & 8)	Mark the correct me	eaning o	f the italicized idi	oms/phrases used in the
Direc	` '	ut of the four options:	annig o	i iiio itaiioizoa iai	oms/pinases asea in the
7.	Kailash <i>pulled throu</i>	-			
7.	A) passed with diffic	9	pear at	C) became ill	D) created disorder
8.	Kirti has knocked ab	out Australia a great d	eal.		
	A) wasted his time	\mathcal{S}		B) condemned the	e world
	*	most feelings to others	3	D) wandered abou	
Direc	etions (Q.No. 9 & 10)	Find the right senten	ces out	of the four given c	hoices:
9.	A) He looks like his	-	ces, out	B) He is like his n	
<i>)</i> .	C) He resembles with			D) He resembles 1	
10				,	
10.	A) I rarely go to my v	_		B) I scarcely go to	
	C) I hardly go to my v	C		D) I go to my villa	age very less.
11.		ries 5, 8, 11, 14,		eth — >	a .th
	A) 104 th	B) 105 th	C) 106	,	64 th
12.			n sequen	tially placed in the	gaps of the given letter
	series will complete the				
	cb_db_cba_bc_bad_c				
	A) acdcb	B) cabdc	C) act	· · · · · · · · · · · · · · · · · · ·	debeb
13.					train Y starts from B at 4
		5:30 PM. Two trains w	vill cross		D) 4 50 D) 6
	A) 4:36 PM	B) 4:42 PM		C) 4:48 PM	D) 4:50 PM
14.	•	_		•	ys late', 'gin din cin hin'
					s stopped all trains', 'din
		l passengers were late'	. 'hın r		
	A) Always late trains			B) Passengers are	•
	C) All passengers trai	ns		D) Passengers are	late

15.	Q's mother is the sis	ster of P and daughter	of M. S is the daughter o	f P and sister of T. How is	
	M related to T?				
	A) Maternal grandmo	ther	B) Father		
	C) Maternal grandfath	ner	D) Option A) or	C)	
16.	Three of the following	g four are alike in a cer	tain way and so form a gr	roup. Which is the one that	
	does not belong to the	e group?			
	A) Volume	B) Size	C) Large	O) Shape	
Direc	,	•		three different buildings	
17.	blue, white, black, ye than two stay in any only J. i.e. Ashiana. In the same building	ellow and pink, not not of the buildings. Q is Y is flying a black kite as A or P and is flying person and is flying at fly a blue kite.	ecessarily in that order. No flying a pink kite and live and does not live in Ridge a yellow coloured kite.	rent colours i.e. red, green, lot more than three or less res in the same building as the building. U does not live D lives in Ridge building top view building flies a	
17.	A) Y, J, P	B) A,Y,P	C) A, P, D	D) Y, U, J	
18.	What coloured kite is	,	C) 11, 1 , D	D) 1, 0, 3	
10.	A) Blue	B) White	C) Black	D) None of these	
Dina	otions for (O No. 10 P	20). A twoining colle	eachas to conduct a mafus	sher course for teachers of	
19.	seven different subjects- Mechanics, Psychology, Philosophy, Sociology, Economics, Science and Engineering from 22 nd July to 29 th July. Course should start with Psychology. 23 rd July, being Sunday, should be holiday. Science subject should be on the previous day of the Engineering subject. Course should end with Mechanics subject. Philosophy should be immediately after the holiday. There should be a gap of one day between Economics and Engineering.				
	A) Mechanics	B) Engineering	C) Economics	D) Psychology	
20.	How many day/s gap	is there between Scien	ce and Philosophy?		
	A) One	B) Two	C) Three	D) No gap	
21.	A boy starts from home in early morning and walks straight for 8km facing the Sun. Then, he takes a right turn and walks for 3km. Then, he turns right again and walks for 2 km and then turns left and walks for 1 km. Then, he turns right, travels 1 km and then turns right and travels for 4 km straight. How far and in which direction is he from the starting point? A) 5 Km east B) 6 Km west C) 2 Km north D) 4 Km south				
22.	• •			which has as many letters oth forward and backward	
	direction). A) One	B) Two	C) Three	D) More than three	
23.	exchange their positi	ons and then Deepti	becomes seventeenth fro	teenth from the right. They om the left. Find the new	
	position of Kashish fr A) 20 th	om the right end of the	e row.		

24. This question is based on the following five numbers:

834 427 563 649 975

If 2 is subtracted from every even digit and 1 is subtracted from every odd digit of each number which number among them will be the lowest number?

- A) 834
- B) 427
- C) 563

D) 649

25. Which of the following interchanges of signs and numbers would make the given equation correct? $18 - 3 \div 6 + 24 \times 12 = 48$

A) \times and -, 3 and 6

B) \div and -, 12 and 6

C) \times and +, 3 and 6

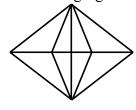
D) \div and \times , 3 and 12

26. A clock seen through a mirror shows quarter to three. What is the correct time shown by the clock?

- A) 8:15
- B) 9:12
- C) 8:17

D) 9:15

27. How many triangles are there in the following figure?



A) 24

A) 2

- B) 18
- C) 20

D) None of the these

28. The six faces of a cube are coloured black, brown, green, red, white and blue in the following ways:

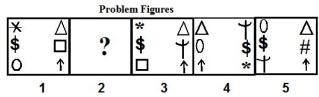
Blue is opposite to black; Brown is adjacent to red; Red is adjacent to white; Blue is at the bottom surface; and Green is between Blue and Black

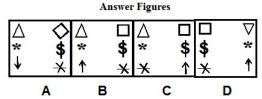
Which of the following can be deduced from the given information?

A) Red is on the top

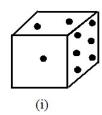
- B) White is opposite to Black
- C) Brown is adjacent to White
- D) Green is opposite to Red

29. One figure from the set of problem figures, marked as (1, 2, 3, 4, 5) is missing and this missing figure is represented by the sign '?' Choose one figure from the set of answer figures marked as (A, B, C, D) which completes the series of problem figures, based on a certain rule and replaces the sign '?'.

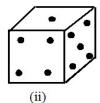




30. Two positions of a dice are shown below. How many dots are there on the face opposite to the face that contains four dots?



B) 3



C) 5

D) 6

	A) $\frac{A_1 + A_2}{2} \times L$		$\mathrm{B})(Bd+Sd^2)\times L$	
	C) $\frac{L}{6}(A_1 + A_2 + 2A_n)$	(n_n)	D) $\frac{L}{6}(A_1 + A_2 + 4A_n)$	$_{n})$
32.	The livable area is kan A) Carpet area	nown as B) Plinth area	C) Built-up area	D) Floor area
33.	The vertical face of a A) Jamb	a window or door oper B) Reveal	ning which supports the C) Mullion	frame is called: D) Transome
34.	Which of the follows A) Beauty	ing is not an essential in B) Convenience	idea of town planning? C) Environment	D) Space
35.	Which of the follows A) Density	ing is the principle of z B) Height	zoning: C) Use	D) Flexibility
36.	Assembly buildings A) Group A	belong to which group B) Group B	o? C) Group C	D) Group D
37.	Main objective of to A) Available land C) Transport facilities	wn planning is to deal	with utilization of B) Road syste D) Housing	 em network
38.	Scale which represent A) Vernier scale	nts three different units B) Plane scale	s such as meters, decime C) Diagonal scale	eters, and centimeters is: D) Isometric scale
39.	Which estimate is ca A) plinth area estima C) abstract estimate	lled item rate estimate te	e? B) detailed es D) preliminar	
40.	In a residential build A) 700 mm	ing, the average value B) 900 mm	of stair width is C) 1000 mm	D) 800 mm
41.	When two footings a A) Combined footing		m the foundation is calle C) Strap footing	ed D) Strip footing
42.	If the metric chain is A) Less	stretched out of the li B) More	ne, the measured distance C) Same	ce will always be D) Cannot be determined
43.	known as:			rizontal distances directly, is
	A) Plane alidade	B) Tacheometer	C) Clinometer	D) Telescopic alidade
44.	Which direction aspo A) North or North-Ea C) North or North-V		Gallery or Verandah? B) South or S D) West or Se	
45.	While folding of prin	nts, how title block nee	eds to be placed?	on and visible on top after
	B) The title block of after folding	all the folded prints ap	ppears in bottommost po	sition and visible on bottom
	folding			on and visible on bottom after
	D) The title block of folding	all the folded prints ap	ppears in bottommost po	sition and visible on top after

The prismoidal formula for determining the quantity of earthwork is:

31.

46.	as scaffolding?			_	emporary structure such	
	A) Fished joint	B) Tabled joint	C) Scarified joint	D) Lapped joint	
47.	Which is the structur rain water into the co A) Catch basin			mber along the so	ewer line to admit clear D) Trap	
48.	Which of the following A) Batten	ng prevents purlins fi B) Cleat	_) Rafter	D) Eave board	
49.	The designation of sl A) A3	neet of size 594 × 841 B) A2) A1	D) A0	
50.	Internal angle of a re A) 72°	gular hexagon is B) 108°	C) 120°	D) 135°	
51.	Which of the following A) Precision value — C) True value — Mea		В) Measured value) True value – As		
52.	What will be the dist A) 15	ance between two por B) 12		oordinates (0, 5) a) 17	nd (12, 0)? D) 13	
53.	In a contour plan, if	contour lines are dray	wn with a con	tour interval of 2	m and if the gradient is on consecutive contours	
	A) 15 m	B) 30 m	C) 45 m	D) 60 m	
54.	r	efers to the effect pr	oduced by d	eriving the maxis	mum benefits from the	
	minimum dimension	s off a room.				
	A) Compactness	B) Roominess	$\mathbf{C}_{\mathbf{c}}$) Grouping	D) Privacy	
55.		eals with the sound in B) Transmission		_	D) Acoustics	
56.	The most important p A) display manufactor C) reduce the weight		B) form k	• •	en brick and mortar providing 'hollows'	
57.	When a protractor is A) Scales of chords	not available then wh B) Plain scales	nich scale is u C) Circula		neasure angles? Comparative scales	
58.	Which door is recom A) Collapsible steel of C) Revolving door	mended when privac	B) Louve			
59.	A) Flatter the slope, wind action.		pe of roof tru ain leakage w	ss? while steeper the signal	lope lesser are effect of	
	B) Flatter the slope, lesser are effect of rain leakage while steeper the slope greater are effect of wind action.					
	C) Flatter the slope, wind action.	lesser are effect of ra	iin leakage w	hile steeper the slo	ope lesser are effect of	
	D) Flatter the slope, a wind action.	greater are effect of ra	nin leakage w	hile steeper the slo	ope greater are effect of	

	polygons by using a c	ompass and straight edge						
	A) Architecture draw	•		B) Geometric construction				
	C) Structural drawing	construction	D) Infrastructural co	onstruction				
61.	A portion of land acq	uired under the land acqu	isition act for a street, is s	old by the				
	to an individual.							
	A) Municipal council	B) Secretary	C) Urban authority	D) Magistrate				
62.	Length of an offset po	ole is generally equal to:						
	A) 2 meters	B) 4 meters	C) 5 meters	D) 6 meters				
63.	In a 20-m long chain	with 100 links, each link o	denotes:					
05.	A) 0.1 m	B) 0.25 m	C) 0.4 m	D) 0.2 m				
64.	,	,	nhabitants	,				
04.	A) Security and happi		B) Happiness	_•				
	C) Food and power	ness	D) Clean streets and	l security				
65.	, -	led into suitable zones suc						
05.	A) recreation zone	ica into sattable zones suc						
	B) residential zone, co	ommercial zone						
	*		l zone and recreation zone					
	D) industrial zone and recreation zone							
66.	Mohenjo-Daro divide	d in to blocks						
	A) 10	B) 12	C) 14	D) 16				
67.	Gandhinagar and Chandigarh's planning are based on,							
	A) Rectangular grid pa			B) Rectangular with diagonal pattern				
	C) Concentric and rad	<u>-</u>	D) Radial street patt	tern				
68.		sidered for the height zon	ning?					
	A) Cubical contents of	-	21 111					
	B) Width of streets and other marginal open spaces of buildings							
	C) Options A) and B)D) Heights of building	~~						
69.	Causes of slums are:	38						
0).	A) Rapid industrializa	tion	B) Population grow	th				
	C) Lack of zoning		D) All of the above	, 1				
70		havilding is the area of w	•	ous haloonias moushas				
70.	area of a building is the area of verandahs, passages, corridors, balconies, porches etc.							
	A) Floor area		B) Horizontal circulation area					
	C) Vertical circulation	ı area	D) Plinth area	<i>'</i>				
71	,		,					
71.	The axis used to show A) W axis	B) X axis	C) Y axis	D) Z axis				
	ŕ	,	,	D) L axis				
72.		vert discrete object in poly		D) D 1 1'				
	A) Union	B) Subtract	C) Join	D) Polyline				
73.	In CAD, which of the	following is not a proper	ty of an object?					
	A) Line weight	B) Measure	C) Hyperlink	D) Elevation				

The construction of engineering drawing means line, line segments, points, planes, circles, and

60.

74.	Line connecting a vie A) Dimension line	w to a note is know as B) Projection line		C) Arrowhead	D) Leader
75.	Which of the followin A) Alt + F4	ng commands is used for B) Alt + F1	or closing	g the active window C) Shift + F4	? D) Ctrl + F4
76.	'Offset' command ca A) Parallel lines C) Perpendicular bise	nn be used for drawing:	:	B) Intersecting lines D) To cut extra line	
77.	•	e planes of projection a obtained in this way is B) reflex		<u> </u>	of intersection and the D) dihedral
78.		ng is not a valid option B) Decimal	of Units	, -	D) Meter
79.	Parallelogram bars ar A) Drafting board	e the basic part of which B) Protractor	ch instru	ment? C) Drafting chair	D) Mini drafter
80.	Oblique sections are u A) Interior shapes C) Foreshortened feat	useful to show the		B) Oblique lines D) Projected featur	res
81.	Which mode allows to A) OSNAP	he user to draw perpen B) Ortho	dicular s	traight lines? C) Linear	D) Offset
82.	A regular cone is place A) Circular	eed on a horizontal plan B) Triangular	ne on its	base, the front view C) Oblong	is D) Elliptical
83.	Which of the following angles?	ng drawings is an axor	nometric	and has three axis th	nat are divided in equal
	A) Dimetric	B) Isometric		C) Trimetric	D) Orthographic
84.	Straight line joining to A) Side	he opposite corners of B) Hypotenuse	a quadril	ateral is called as: C) Perpendicular	D) Diagonal
85.	The 'Collabland' soft A) Visual Basic	ware is developed und B) Java	er C) Ora		D) C++
86.	In transverse plotting	, the stations are exami	ined and	inked as	•
	A) Red	B) Blue	C) Bla		D) Green
87.	The following formul number of sides.	a is used to check the	value of	measured angles in a	a closed circuit with 'n'
	A) $2n \times 90$	B) $(2n + 4) \times 90$	C) 2n		D) $(2n-4) \times 90$
88.	When plan is drawn a A) First Angle	bove the elevation, the B) Third Angle	e projecti C) Isor		D) Fourth Angle
89.	If a thin circular disrespectively:	se is perpendicular to	both H	P and VP, its plan	and elevation will be
	A) Line, Ellipse	B) Ellipse, Line	C) Lin	ne, Line	D) Circle, Line
90.	Two sides of a right-a A) 14 cm	angled triangle are 3 cm B) 6 cm	n and 4 c C) 7 c	•	potenuse will be: D) 5 cm

91.	Maximum length of a rod that can be kept in A) 12+12+12 feet		a room of size 12×12×12 feet is: B) 12 ² feet			
	C) $\sqrt{12 + 12 + 12}$ fee	et	D) $\sqrt{12^2 + 12^2 + 12^2}$	feet		
92.		l regeneration				
93.	In AutoCAD, which of lines: A) Trim	of the following comma B) Offset	ands is used to make a s C) Region	surface bounded by broken D) Fillet		
94.	Files extensions of dra A) .dwg and .bmp	awing files and template B) .dwt and .png	e files in AutoCAD are r C) .dwg and .dwt	espectively: D) .dxf and .dwg		
95.	95. To continue dimensioning along the same line, which of the following commands may be used A) DLI B) DAL C) DIMANG D) DCO					
96.	A) Every detail cut be the section plane must be hatched					
97.	A Polyline can be brok A) BREAK	ken into individual lines B) TRIM	•	f the following command? O) OVERKILL		
98.	Find the false statement in regards with "If an array is made associative". A) You can't use Boolean operations on the array elements B) The array can be edited again by selecting it C) The array can't be modified in any way once it is made associative D) To make the array non-associative you need to use explode command on it					
99.	A) The Model tab is uB) The Model tab is wthat you will plot oC) The colour of the b	where you create the drawn or print on background colays the drawing you as	stinguished as, and a Layout is used for wing, and a Layout tab r re copying from and the	represents the sheet		
100.	A Boolean operation t A) Union	hat is used to select inte B) Intersect **	erfering region between a C) Subtract	solids D) Deduct		

Urban Planning (Town Planning wing) Post: Junior Draftsman (Morning) 10-03-2024 (Sunday)

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