## Department of Urban Planning (Architecture Wing) POST: Junior Draftsman Question Booklet & Answer Key 10.03.2024 (Sunday) Evening

Direc	tions (Q.No. 1 & Q.N	No. 3) Out of the four	given options, choos	e the correct opposite of the		
1.	Imprecation					
	A) Bless	B) Imprecise	C) Precise	D) Criticize		
2.	Meagre					
	A) Scantly	B) Excessive	C) Inadequate	D) Exceptional		
3.	Mulish					
	A) Obedient	B) Patronizing	C) Docile	D) Stubborn		
Direc	tions (Q.No. 4 & Q.N	<b>10. 6)</b> Out of the four	given options, choose	the correct synonym of the		
	words given below:					
4.	Spot					
	A) Site	B) Dot	C) Ground	D) Situation		
5	Importunate					
	A) Clever	B) Practical	C) Persistent	D) Irrelevant		
6	Itinerant	D) i fueticui		D) molevant		
0.	A) Wandering	B) Sedentary	C) Quiet	D) Vocal		
<b>D</b> :	tions (ONs. 7.9 ON	$\mathbf{P}$ (1) $\mathbf{C}$ (1)	, , , , , , , , , , , , , , , , , , ,	, farm antiana ta ha fillad in		
Direc	the core of the fellow	<b>5.8</b> ) Choose the correction	ct preposition, out of th	te four options, to be filled in		
7	User is isomerant	hig mistals				
/.	A) with	D) of	C) for	D) at		
	A) with	<b>B</b> ) 01	C) 101	D) at		
8.	Putthe fire.					
	A) upon	B) out	C) about	D) off		
Direc	tions (Q.No. 9 & Q.	No. 10) Out of the	four options given b	elow, choose and mark the		
	expression that best ex	presses the meaning o	f the following idioms	and phrases:		
9.	To fall in with.					
	A) to meet accidently	,	B) to be crazy about s	something		
	C) to be full of despar	ir	D) to be full of hope			
10.	To be above board :-					
	A) to criticize		B) to show respect ot others			
	C) to board a vehicle		D) to be honest			
Direc	tions for (Q.No. 11 &	12) Read the pattern	of letters/numbers/terr	ns and find the missing term		
	from the given alterna	tives:				
11.	9, 27, 31, 155, 161,	1127, ?				
	A) 1135	B) 1288	C) 316	D) 2254		
12.	IAZ, KEB, ? , OOF	, QUH				
	A) MDD	B) MII	C) MIO	D) MID		
13.	If BRIGHTEN is writt	en as HJSCMDSG. He	ow is COMPLETE wri	tten in that code?		
	A) DSDKQNPD	B) QNPDDSDK	C) QNPDFUFM	D) OLNBFUFM		
14.	If $\div$ stands for greater	than; $\times$ stands for add	ition; + stands for divis	sion; – stands for equal to; >		
	stands for multiplication	on; = stands for less th	an; < stands for minus	, then which of the following		
	is correct?					
	A) $3 + 2 < 4 \div 6 > 3$	×2	B) $3 \times 2 < 4 \div 6 + 3$	< 2		
	C) $3 > 2 < 4 - 6 \times 3$	× 2	D) $3 \times 2 \times 4 = 6 + 3$	< 2		

round table and having coffee. P is sitting between U and V. Q is sitting between W and T. R is sitting to the third left of V. W is sitting third right of S. 15. How many persons are sitting between R and S? A) 2 B) 3 C) 4 D) 5 16. Which of the following is true? A) U is sitting immediate left of P C) There is only one friend between W and T D) All of the above 17. At the end of a business conference, 10 people present shake hands with each other once. How many hand shakes will be there all together? A) 20 B) 45 C) 55 D) 90 18. A person was asked to state his age in years. His reply was, 'take my age three years hence, multiply it by 3 and then subtract three times my age three years ago and you will know how old I am'. What was the age of the person? A) 18 years B) 20 years C) 24 years D) 32 years 19. A clock seen through a mirror shows quarter past three. What is the correct time? A) 9:45 B) 9:15 C) 8:45 D) 3:15 In a certain code language, 'lur at de' means 'what was it'; 'mo nil' means 'you go'; 'nil pam ra' means 'you like it' and 'tok lu fo' means 'she was sick'. How will you write 'what you like' in that code? A) 10 B) 12 C) 15 D) 17 Directions for (Q.No. 22 & 23): All the given members belong to the same family. J is the brother of L. J is the molt of R. W is the father in law of L. D is the maternal grandfather of N. 21. How L is related to C? A) Nother B) Son C) Brother D) None of these 23. How is <i>P</i> leadet to N? A) Son B) Mother C) Brother D) None of these 24. How L is related to C? A) No B) 22 m South-East 25. A painter has painted a eubical box with sid different colours for different faces of the cube. Red face is between walking towards East from a point 'S' and after walking 15 m turns to his left and walks 10 m turning to his left and fangue yeaks 20 m turning to his left and walks 10 m turning to his left and fangue yeaks 20 m turning to his left and walks 10 m turning to his left and fangue yeaks 20 m turning to his left and may by aso 2 m turning to his left and walks	Direc	tions for (Q.No. 15 &	16) P, Q, R, S, T, U,	V and W are eight frie	nds. They are sitting around a			
<ul> <li>sitting to the third left of V. W is sitting third right of S.</li> <li>15. How many persons are sitting between R and S?</li> <li>A) 2 B) 3 C) 4 D) 5</li> <li>16. Which of the following is true?</li> <li>A) U is sitting immediate right of R</li> <li>B) U is sitting immediate right of P</li> <li>C) There is only one friend between W and T</li> <li>D) All of the above</li> <li>17. At the end of a business conference, 10 people present shake hands with each other once. How many hand shakes will be there all together?</li> <li>A) 20 B) 45 C) 55 D) 90</li> <li>18. A person was asked to state his age in years. His reply was, 'take my age three years hence, multiply it by 3 and then subtract three times my age three years ago and you will know how old 1 am'. What was the age of the person?</li> <li>A) 18 years B) 20 years C) 24 years D) 32 years</li> <li>19. A clock seen through a mirror shows quarter past three. What is the correct time?</li> <li>A) 9.45 B) 9:15 C) 8:45 D) 3:15</li> <li>20. In a certain code language, 'lu ra de' means 'shue was siek'. How will you write 'what you like' in that code?</li> <li>A) nil ra lu B) pom nil ra C) pom ra lu D) de nil pam</li> <li>21. 36 vehicles are parked in a parking lot in a single row. After the 1<sup>st</sup> car, there in one secoter, after 2<sup>ast</sup> car there are two secoters, after 3<sup>rd</sup> car there are three secoters and so on. Find out the number of secoters in the second half of the row.</li> <li>A) 10 B) 12 C) 15 D) 17</li> <li>Directions for (Q.No. 22 &amp; 23): All the given members belong to the same family. J is the brother of L j is the only son of K. W is the father in law of L. D is the maternal grandfather of P, who is a made. Q is the only son of W. W is the grandfather of N and C is the daughter of N.</li> <li>22. How L is related to R?</li> <li>A) Mother B) Son C) Brother D) None of these</li> <li>23. How is Prelated to N?</li> <li>A) 18 modulate ther in law of L. D is the maternal grandfather of P, who is a made. Q is the only son of W. W is the grandfather of</li></ul>		round table and havin	g coffee. P is sitting be	etween U and V. Q is a	sitting between W and T. R is			
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of words:	26.	Select the option in w	hich the words share the	he same relationship as	s that shared by the given pair			
		of words:		p w				
Hive: Bee		Hive: Bee						
A) Burrow : Hare B) Sty : Dog C) Eyrie : Bear D) Stable : Cow		A) Burrow : Hare	B) Sty : Dog	C) Eyrie : Bear	D) Stable : Cow			

27. Two positions of a dice are shown below. When there are two dots at the bottom, the number of dots at the top will be



28. 120 candidates appeared for examination in three subjects namely English (E), Maths (M) and Science (S). The number of candidates who failed in (E), (M) and (S) are shown in the diagram given below:



The number of candidates who failed in at least one subject is : A) 25 B) 30 C) 60



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

B) 16



D) 21

30. There are two sets of figures namely the Problem figures containing five figures 1, 2, 3, 4, 5 and the answer figures A, B, C, D. You have to select one figure from the answer figure which will continue the same series as given in the problem figures.

C) 19



A) 17

	Answer Figures										
Т		Δ	(	0	Ī	(		I	(	0	=
0		S	Ò		S	0		S	Ō		S
	0	C	Δ		Т	Δ	0	т	Δ		т
	Α		-	В			С			D	

31.The part of a building which transfers its load to the soil below is known as<br/>A) foundationB) ground floorC) basementD) superstructure

- 32. Masonry bond in which every course contains stretchers as well as headers is calledA) English bondB) Flemish bondC) Double Flemish bondD) Dutch bond
- 33.How many standard bricks can be accommodated in 1 cubic meter of brick masonry?A) 350B) 400C) 500D) 520
- 34.In masonry construction, bricks are normally placed with their frogs facing<br/>A) downwardsB) upwardsC) sidewaysD) depends on type of wall
- 35. Window which has its shutters opening and closing like that of doors is known asA) Bay window B) Corner window C) Swing window D) Casement window

36.	Jamb is A) exposed verti B) bottom surfac C) open space for D) vertical cross	ical face of door or wind ce of a door or window o or the window or door s wall face of a window o	ow opening beside fra pening or door opening which	nme a supports the frame		
37.	As per National stairwaysis	Building Code, in a r	esidential low-rise b	uilding, the minimum width for $D$ 150 cm		
38.	A) half-turn staire A) winder staire C) quarter landir	case is called as ase ng staircase	B) spiral s D) dog-le	staircase gged staircase		
39.	If a building has India, what is the A) Type 1	s fire resistance of more e category of the building B) Type 2	than 4 hours, then a g based on fire resista C) Type 3	s per National Building Code of nce? D) Type 4		
40.	In architectural of A) Absence of p C) Absence of m	design, the contrast is roportion nonotony	B) Absend D) Absend	ce of rhythm ce of balance		
41.	One radian angle A) 60°	e converted to degrees is B) 57.29°	equal to C) 180°	D) 45.26°		
42.	Area of a buildir A) plinth area	ng excluding area occupi B) carpet area	ed by its walls is know C) floor area	wn as D) plot area		
43.	The covering pro A) cramp	ovided at the top face of B) coping	a wall is commonly k C) cornice	nown as D) corbel		
44.	As per NBC, the A) 2.0 m	e height of a bathroom in B) 2.4 m	residential building s C) 3.0 m	hould not be less than D) 3.3 m		
45.	Steel gets its cor A) Vanadium	rosion resistance from w B) Chromium	which of the following C) Manganese	metals? D) Vanadium		
46.	The section obt position relative	to the axis of the cone and P) Circles	on of the right circul re called	ar cone by a plane in different		
47.	A) Ovais In which of the o	b) Circles orthographic projections,	, the plan is drawn be	low front view and left-hand side		
	view comes on r A) Fourth angle C) Second-angle	ight-hand side of front v projection projection	iew? B) Third-a D) First-a	angle projection ngle projection		
48.	<ul><li>When a plane is parallel to a reference plane, then its projection on that reference plane will show</li><li>A) Its true length only and true shape</li><li>B) Its true widthonly and true shape</li><li>C) Its true length and width both, and true shape</li><li>D) Its true length and width both, and false shape</li></ul>					
49.	When the cuttin will be seen in A) Front view	g (section) plane is para B) Left hand side view	llel to HP or the grou C) Top view	nd, the true shape of the section D) Back-side view		

50.	In the isometric proj A) 1.552	ection, the ratio of red B) 0.816	luced dimensions to true dim C) 0.750	ensions is D) 0.667			
51.	Which type of cemer A) High alumina cer C) Rapid hardening	nt is more suitable for nent cement	the construction of chemical B) Expanding cem D) Hydrophobic c	l plants and furnace? nent ement			
52.	The minimum period A) 7 days	l for removal of props B) 14 days	to beams for a span of 6 m i C) 21 days	in formwork is D) 24 days			
53.	<ul><li>Which of the following factors are important for deciding orientation of a building?</li><li>A) prevailing wind direction in the area</li><li>B) walls and roof 's exposure to sunlight</li><li>C) extent to which sun rays reach into the verandah</li><li>D) All of these</li></ul>						
54.	In the following righ	t-angles triangle, tanθ	can be expressed as				
		c	θβ				
	A) AC/BC	B) AC/AB	C) BC/AB	D) 2(AC/AB)			
55.	The development of A) squares	lateral surfaces of an B) parallelograms	oblique prism consists of a n C) trapeziums	umber of D) rectangles			
56.	What is the type of t	rap shown in figure?					
	A) S-trap	B) Q-trap	C) P-trap	D) D-trap			
57.	A point is 6 cm aw profile plane in first front view and top ve	ay from vertical plan quadrant. Its projection iew of the point?	e and horizontal plane both ons are drawn on sheet. Wha	, and 10 cm away from t is the distance between $D$ 4 cm			
<b>7</b> 0	A) 14 cm	B) 12 cm	C) 16 cm	D) 4 cm			
58.	<ul><li>What is the primary</li><li>A) Studying ancient</li><li>B) Analyzing climat</li><li>C) Investigating geo</li><li>D) Understanding cl</li></ul>	purpose of building cl architecture e patterns in urban are logical formations imate of a given area	limatology?				
59.	Which factor is NOT A) Temperature	T typically considered B) Wind speed	in building climatology stud C) Soil composition	ies? D) Humidity			
60.	Which of the follow A) High humidity C) Adequate insulati	ing factors is crucial fo	or preventing mold growth in B) Poor ventilation D) Lack of sunligh	n buildings? n nt exposure			

61.	In a cold climate, which design strategy is effective for maximizing passive solar heating in a building?						
	<ul><li>A) Large windows</li><li>C) Small windows</li></ul>	on the north side on the south side	B) Minim D) Dark-c	al insulation olored roofing material			
62.	What is the color re A) The cost of insta B) The ability of a C) C) The efficiency of D) The lifespan of a	endering index (CRI) alling lighting fixtures light source to accura f a lighting system a light bulb	in lighting design? s tely reveal colors of o	ojects			
63.	What is the recomm A) 3500K	nended color tempera B) 5000K	ture for warm, inviting C) 6500K	g lighting in residential area D) 2700K	ls?		
64.	What is the primary A) Reducing energ C) Enhancing priva	y goal of daylighting y consumption cy	in building design? B) Maxim D) Improv	izing artificial lighting ving ventilation			
65.	What is the purpose A) Determining the C) Setting standard	e of the "floor area ra building height s for materials used in	tio" (FAR) as specified B) Regul n construction D)	l in the National Building C ating the density of constru Assessing structural stabilit	Code? ction Y		
66.	In the context of fir A) Methods of cons C) Exit routes and c	e safety, what does " struction exit doors	means of egress" refer B) Fire de D) Emerg	to in a building? tection systems ency lighting systems			
67.	What does the term A) The study of and B) The science of d C) The use of bold D) The arrangement	"ergonomics" refer t cient architecture lesigning spaces to op and vibrant colors t of furniture for aest	o in the context of inte otimize human well-be hetic appeal	erior design? ing and efficiency			
68.	Which element of c A) Color	lesign involves the ac B) Texture	ctual feel or tactile qua C) Lighting	lity of surfaces in a space? D) Pattern			
69.	A septic tank is A) Sedimentation tank B) Digestion tank C) Combination of D) Combination of	ank sedimentation of dige sedimentation and ae	estion tank eration tank				
70.	<ul><li>What does the term "form follows function" mean in architectural design?</li><li>A) The shape of a building is unrelated to its purpose</li><li>B) The function of a building determines its form or design</li><li>C) Aesthetic considerations always take precedence over functionality</li><li>D) Form and function are entirely independent in architectural design</li></ul>						
71.	What is the differen A) Scale is for obje B) Scale can shrink C) Scale changes th D) Both are same c	nce between 'Scale' c oct whereas Zoom is f or enlarge objects up ne size of the object, w ommands	ommand and 'Zoom' or entire plan oto 10 times while Zoo while Zoom changes th	command? om has no limit ne visibility of the project			

72.	From which toolbar A) Standard toolbar C) Modify toolbar	, design centre palette	tte can be opened? B) Layer toolbar D) Property toolbar			
73.	The representative f A) 1:500	raction (RF) for a sca B) 1:5000	le of 1 cm = 5 km will b C) 1:50000	be equal to D) 1 : 500000		
74.	The ratio of length o A) 8:1 to 6:1	of large dashes to leng B) 6:1 to 2:1	th of small dashes is no C) 5:1 to 1:1	ormally kept as D) 6:1 to 4:1		
75.	In AutoCAD, an arc A) Join	c can be converted into B) Union	o circle with which of th C) Complete	ne following commands? D) Finish		
76.	While using CAD, v A) Arc	which of the following B) Polyline	g commands is used to o C) Draw	lraw contour lines? D) Spline		
77.	Which of the follow A) Hyperlink	ving is not a property o B) Line-weight	of an object? C) Elevation	D) Measure		
78.	In AutoCAD, what A) To delete selecte B) To clean and ren C) To create a back D) To undo the last	is the purpose of the " ed objects nove unused items fro up of the drawing operation	Purge" command? m the drawing			
79.	Which command is A) Measure	used to measure the d B) Distance	listance between two po C) DIMDIST	ints in a drawing? D) MEASUREDIST		
80.	<ul><li>What is the function</li><li>A) To convert a dra</li><li>B) To convert units</li><li>C) To convert text t</li><li>D) To convert layer</li></ul>	n of the "DWGCONV wing to a different file in the drawing o polylines s to blocks	ERT" command in Auto e format	oCAD?		
81.	What is the purpose A) Manage block at C) Adjust the backg	of the "BATTMAN" tributes round color of the dra	command in AutoCAD B) Create awing D) Manag	? a bat file for batch processing se battery settings		
82.	How can you apply A) GRADIENT C) FILLGRADIEN	a gradient fill to an ol T	bject in AutoCAD? B) HATC D) APPL	HGRADIENT YGRADIENT		
83.	What is the default A) Cartesian coordi C) Relative coordin	method for specifying nates (X, Y, Z) ates (@X, @Y, @Z)	g points in AutoCAD? B) Polar co D) Spheric	coordinates (distance, angle) cal coordinates (r, $\theta$ , $\phi$ )		
84.	How can you undo A) Ctrl + Z	the last operation in A B) Alt + U	utoCAD? C) Esc key	D) F9 key		
85.	The ratio between tw	wo adjacent sides of the point $\sqrt{2}$	he drawing sheets is	D) 1 2 414		
86	A) 1: 2 The Indian Standard	B) $1: \sqrt{2}$	U) 1: $\sqrt{3}$	D) 1: 2.414		
00.	A) Scales	B) Lines	C) Lettering	D) Projection methods		
87.	Which lines are use A) Outlines	d to indicate terminati B) Leader lines	ion (end) of dimension I C) Extension lines	ines? D) Dashed lines		

88.	A solid which has four equal A) Tetrahedron	faces each an equilate B) Hexahedron	eral triangle is C) Octahedron	D) Square pyramid		
89.	The maximum number of ta is	ngents that can be drav	wn to a circle from a p	oint outside the circle		
	A) One	B) Two	C) Eight	D) Infinite number		
90.	A right regular hexagonal pr and front view will respective	rism is standing on HP ely look like	on its base in front of	f VP, then itstop view		
	A) Square and Hexagon		B) Rectangle and Her	xagon		
	C) Hexagon and Rectangle		D) Square and Rectar	ngle		
91.	Which of the following is no	t a solid of revolution?	2			
02	A) Sphere	B) Cone	C) Cylinder	D) Prism		
92.	area panel of PLOT window	?	AutoCAD, which optic	on can be used in plot		
	A) Display	B) Window	C) Limits	D) Zone		
93.	Which of the following con like end point, mid-point, tar	nmands allows the drangent, etc. very precise	ftsman to pick specified ly?	c points in a drawing		
	A) Grid On	B) Ortho	C) Qselect	D) Osnap		
94.	This command can be used t A) Join	o convert a polyline in B) Trim	to separate lines: C) Explore	D) Explode		
95.	For creating multiple copies commands is commonly use	of an object at a reguined?	lar interval in rows and	d / or columns, which		
	A) Mirror	B) Array	C) Multicopy	D) Offset		
96.	<ul> <li>What is the correct sequence to create a polyline with three connected line segments?</li> <li>A) PLINE &gt; Specify start point &gt; Specify next point &gt; Repeat</li> <li>B) LINE &gt; PLINE &gt; Specify points</li> <li>C) POLYLINE &gt; Specify start point &gt; Specify end point &gt; Close</li> <li>D) DRAW &gt; POLYLINE &gt; Define vertices</li> </ul>					
97.	A Boolean operation that is a A) Union	used to select interferin B) Intersect	ng region between solic C) Subtract	ls, D) Overlap		
98.	How will you create a line r to the positive direction of th A) 30<15	epresenting length 15 the X-axis and the first p B) 15<30	units at an angle of 30 point of the line is not a C) @30<15	0 degrees with respect at the origin? D) @15<30		
99.	What will be length of a line A) 17 units	drawn from coordinat B) 12 units	es (2, 4) to coordinates C) 13 units	(7, 16)? D) 15 units		
100.	The 'Design Centre' is a A) drop-down menu B) dia	logue box C) pal ***	ette D) command	to design circles		

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

## Urban Planning (Architecture wing) Post : Junior Draftsman (Evening) 10-03-2024 (Sunday)