PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (Sep-2018) for Recruitment of Planning Officer in the Department of Town & Country Planning, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 170

		Time Allow	ved: 170 Minutes
Can	didate's Name		Question
Fath	ner's Name		Booklet Set
Date	e of Birth	Category Code*	
	DD MM YYYY	(*as given in the admit card)	
OM	R Response Sheet No		Booklet Series No.
Roll	No		BOOKIET SETTES NO.
Can	didate's Signature (Please sign in the box)		
	INST	RUCTIONS	
1.	The candidate shall NOT open this booklet till the meantime, the candidate can read these instruction given above in CAPITAL letters. The candidate Mark Reader (OMR) response sheet, supplied states.	ctions carefully and subsequently fill the emay also fill the relevant boxes out of	appropriate columns
2.	Use only blue or black ball point pen to fill the rel lnk pen or any other pen is not allowed.	levant columns on this page as well as i	n OMR sheet. Use of
3.	The candidate shall be liable for any adverse incomplete.	effect if the information given above is	wrong or illegible or
4.	Each candidate is required to attempt 170 quimpaired candidates, who would be given 57 sheet.		
5.	The candidates, when allowed to open the que confirm that the booklet has complete number of pages. In case there is any such error in IMMEDIATELY bring this fact to the notice of series as given earlier.	of pages, the pages printed correctly ar the question paper booklet then the	nd there are no blank ne candidate should
6.	The serial number of the new Question booklet column of the OMR. The Invigilation Staff must change in the serial no. of Question booklet.		
7.	The question paper booklet has 26 pages.		
8.	The paper consists of total 340 Marks. Each question and the candidate has to mark the MO		

10. The candidate MUST READ INSTRUCTIONS BEHIND THE OMR SHEET before start answering the Questions and check that two carbon copies attached to the OMR sheet are intact.

9. There is no negative marking for wrong answers or questions not attempted by the candidate.

Section-I

Directions (Questions 1 to 3): Read the following information carefully and answer the questions given below it:

One car can accommodate maximum five and minimum four students.

(i)

Eight students A, B, C, D, E, F, G and H are planning to enjoy car racing. There are only two cars and following are the conditions:

(ii) (iii) (iv)	B and	sit in the same I C can't sit in tl sit in the car of	ne same c	ar in which D is	sitting			G.		
1.	If H a car?	nd G are sittin	g in the s	ame car, who	are other	two student	s sitting in	the same		
	(a)	B and C	(b)	C and D	(c)	B and D	(d)	E and B		
2.	If E ar	nd A are sitting	in the sam	ne car, which o	f the follo	wing stateme	nts is true?			
	(a)	Five students	are sittin	g in the same o	car					
	(b)	B is sitting in	the same	car						
	(c)	F is not sitting	g in the sa	me car						
	(d)	G is not sittin	g in the sa	ame car						
3.	Which	n of the followi	ng statem	ents is superflu	ous for th	ie above sittir	ıg arrangen	nents ?		
	(a)	Only (i)	(b)	Only (ii)	(c)	Only (iii)	(d)	Only (iv)		
4.	Which	n two months in	n a year ha	ave the same c	alendar?					
	(a)	June, Octobe	r		(b)	April, Nover	mber			
	(c)	April, July			(d)	October, De	cember			
5.		ge the followin	_							
	1) Phr	•		•	4) Sentend		(4)	2241		
	(a)	1,2,3, 4	(b)	1,3,2,4	(c)	2,3,1,4	(d)	2,3,4,1		
6.	twent	queue, A is eig ry-fifth from th ns are there in	e front a	nd is exactly i						
	(a)	45	(b)	46	(c)	47	(d)	48		
7.	A man is facing west. He turns 45° in the clockwise direction and then another 180° in the same direction and then 270° in the anti-clockwise direction. Which direction is he facing now ?									
	(a)	South	(b)	North-west	(c)	West	(d)	South-wes		
				D. 1						

8. 'NRC' was much in news recently related to a Supreme Court Monitored exercise Assam to identify the genuine Indian nationals living in the state. The full form of I is:-									
	(a)	National Registra	ition C	ouncil		(b)	National Registe	r of cit	izens
	(c)	National Roll of c	itizens	5		(d)	National Reverifi	cation	Council
9.	POCSO	O Act, is related to	which	of the fo	llowing:				
	(a)	Industrial labour	class			(b)	Working Women	1	
	(c)	Minorities				(d)	Children		
10.	ABCD	: NPRT :: FGHI : ?							
	(a)	KLMN	(b)	OQRT		(c)	RTUW	(d)	SUWY
11.		certain language, ' lisa peru' means ner'?							
	(a)	Peru	(b)	Oka		(c)	Meta	(d)	Dona
12.	Who v	was the First wome	en Pres	sident of	Indian Na	tional	Congress?		
	(a)	Nellie Sengupta				(b)	Annie Besant		
	(c)	Kadambini Gangı	uly			(d)	Sarojini Naidu		
13.		certain language, inguage ?	FLOW	/ER is co	ded as U	OLDVI,	then how is TERI	MINAL	coded in
	(a)	FLKPMROZ	(b)	GVINR	ΛZO	(c)	RVNIGLKA	(d)	MNIVGYEO
14.	travel distan distan	son starts from a pass thrice that distace he covered because the second	nce to tweer tarting	reach (A and point an	C. He aga B and re	in turr aches stinatio	ns left and travels his destination D n is:	s five). The	times the e shortest
	(a)	12 km	(b)	15 km		(c)	16 km	(d)	18 km
15 .	Which	town is known as	'Steel-	-town' of	Punjab?				
	(a)	Ludhiana				(b)	Hoshiarpur		
	(c)	Jalandhar				(d)	Mandi Gobindga	rh	
16.	Natura	al gas is primarily c	ompo	sed of					
	(a)	Methane				(b)	Ethane		
	(c)	Carbon dioxide				(d)	Pentane		

17 .	The higher altitude Chandratal lake, a Ramsar site is found in which state										
	(a)	Uttarakhand			(b)	Himachal Prades	h				
	(c)	Arunachal Prades	sh		(d)	Kashmir					
18.		certain language 7, how is the word					ALE is	coded as			
	(a)	13396875	(b)	16693985	(c)	13394567	(d)	19943785			
19.		ertain code, DECEN VENO in that code		is written as ERM	BCEDI	E. Which word wi	ll be v	written as			
	(a)	AUGUST	(b)	SEPTEMBER	(c)	OCTOBOR	(d)	NOVEMBER			
20.		ch Indian Wrestler has created history for being the first female wrestler to have a gold in wrestling in Asian Games in 2018?									
	(a)	Vinesh Phogat			(b)	Babita Phogat					
	(c)	Geeta Phogat			(d)	Babita Phogat					
21.	letters	tions (): In the follo s of the given word IINATION	_	question, choose c	one wo	ord which can be f	ormed	from the			
	(a)	ANIMAL	(b)	EXAMINER	(c)	NATIONAL	(d)	ANIMATION			
22.	Which	name will come ir	the la	ast in a telephone	directo	ory?					
	(a)	Mahender	(b)	Mahendra	(c)	Mahinder	(d)	Mohinder			
23.	Who is	s the new Governo	r of Ja	ımmu & Kashmir?							
	(a)	Satya Pal Malik			(b)	N.N. Vohra					
	(c)	Kaptan Singh Sola	anki		(d)	Ganga Prasad					
24.	In the	series 357, 363, 36	9,	, what will be 10	th tern	n?					
	(a)	405	(b)	411	(c)	413	(d)	417			
25.		one out of the fonds as "Kalaignar"?	llowir	ng personalities wl	ho hav	ve expired recentl [,]	y was	popularly			
	(a)	Atal Bihari Vajpay	/ee		(b)	M. Karunanidhi					
	(c)	Kuldeep Nayar			(d)	J. Jaylalithaa					

26.	6. If 'black' means 'pink', 'pink' means 'blue', 'blue' means 'white', 'white' means 'yellow', 'yellow' means 'red and 'red' means 'brown', then what is the colour of clear sky?							
	(a)	Brown	(b)	Red	(c)	Blue	(d)	Pink
27.		fy the wrong numb , 26, 13, 5	er in t	the series:				
	(a)	5	(b)	13	(c)	26	(d)	55
28.	Who is	s the current army	Chief	of Pakistan?				
	(a)	General Raheel S	harif		(b)	General Ashfaq P	arvez	Kayani
	(c)	General Shuja Pa	sha		(d)	General Qamar J	aved B	Bajwa
29.	shorte			s. A is shorter than A. Who has two				
	(a)	Α	(b)	В	(c)	С	(d)	D
30.	slips b	ack 20 feet before his ascent at 8.00	he ag	he beginning of eagain starts climbing at what time will h	in the	e beginning of the	next h	our. If he
	(a)	4 p.m.			(b)	5 p.m.		
	(c)	6 p.m.			(d)	None of these		
				Section-I	<u>l</u>			
31.	The pi	le which is provide	ed with	h a bulb filled with	concr	ete at its lower end	l, is kn	own as
	(a)	Simplex pile			(b)	Mac-Arthur pile		
	(c)	Raymond pile			(d)	Franki pile		
32.	from b		but a	nset and darkness of the control of		•		•
	(a)	Blue Hour	(b)	Golden hour	(c)	Green flash	(d)	Polar night
33.	founda	ation concrete, bri	ckwor	·	taking	out quantities li	ke ea	rth work,
	(a)	Long wall - short	wall n	nethod				
	(b)	Centre line meth	od					
	(c)	Partly center line	and s	hort wall method				
	(d)	Lumpsum quanti	ty met	thods				

34.		nance the performance lowing shall be an effec			•	sing or	dinary Portland	cement	, which of	
	(a)	Lesser voids or gaps b	y prop	er o	compacti	on				
	(b)	Decrease in the ceme			-					
	(c)	Increase in water-cem		_						
	(d)	All of the above								
35.	•	opular concepts in urb ers & architects. Co-rel Concepts			•	ith the		eminent	planners,	
	Р	Arcosanti	1	-	Etzioni					
	Q	Broadacre city	2	<u>)</u>	Paul Dav	idoff				
	R	Advocacy planning	3	3	F L Wrigh	nt				
	S	Mixed scanning model	4	l	Paolo So	leri				
	(a)	P4 Q3 R2 S1 (b)	P3 C	Q4 I	R1 S2	(c)	P3 Q4 R2 S1	(d)	P4 Q1 R3 S2	
36.	Green procurement is the use of building materials that are and while eliminating the use of materials that contain ozone depleting									
	substances.									
	(a)	new; trendy				(b)	recyclable; rapidly renewable			
	(c)	used; non-renewable				(d)	green coloured; brown coloured			
37.	The po	ointed Arch used during	Tudor	· pe	riod was	:				
	(a)	Three centred arch				(b)	Four centred a	rch		
	(c)	Two centred arch				(d)	Five centred a	rch		
38.	Foliate	ed & Nonfoliated rocks a	are typ	es	of which	basic c	lassification of r	ocks?		
	(a)	Igneous				(b)	Metamorphic			
	(c)	Sedimentary				(d)	Composite			
39.	Punjab	ew Capital (Periphery) o which is adjacent to a ter boundary of the lan	and is	wit	hin a dis	tance o	of			
	(a)	Twenty miles				(b) Five miles				
	(c)	Not specified				(d)	Ten miles			

40.	In architectural photography, when several objects are located away from the camera, the space between them seems tighter. What is this effect generally called as?											
	(a)	Compressed per	spectiv	ve		(b)	Converging entit	ies				
	(c)	Distorted perspe	ective			(d)	All of the above					
41.		uildings are subje of the following i						and t	ransitory.			
	(a)	Dead load	(b)	Wind load	d	(c)	Live load	(d)	Blasts load			
42.	Which	of the following i	s NOT	a contribut	ion of Ro	mans	s to architecture?					
	(a)	Development &	use of	concrete								
	(b)	Development of	arche	s & domes								
	(c)											
	(d)	Development of	Doric	& Ionic colu	ımns							
43.	Bulking of sand shall be highest in which of the following?											
	(a)	Coarse sand				(b)	Fine sand					
	(c)	Medium sand				(d)	Sand saturated i	n wate	r			
44.	m in h order	handbook for planeight, refuge are to accommodate of atleast:	a alon	g the perip	hery of t	the b	uilding with being	g open	to sky in			
	(a)	15 sqm or an are	ea equi	ivalent to 0	.3 sqm pe	er pe	rson					
	(b)	5 sqm or 0.1 sqn	n per p	erson								
	(c)	30 sqm overall										
	(d)	Subject to space	availa	bility								
45 .	A line	on a map which jo	oins pla	aces having	the same	e rain	fall is called an:					
	(a)	Isohyet	(b)	Isobar		(c)	Isotherm	(d)	Isohel			
46.	in Sans	ncient Indian tre skrit by Kautilya, opment of human	with	specific fu	ındamen	•	•	_	•			
	(a)	The Yajur veda				(b)	The Arthashastra	Э				
	(c)	The Mandala				(d)	The Dharmasutr	a				

47. The main objective of keeping house plans compact with thick adobe bricks or stones hilly areas is mainly due to which of the following?							
	(a)	In response to the cl	imatic conditions				
	(b)	To achieve aesthetic	ally pleasing built				
	(c)	In response to the se	eismic concerns				
	(d)	In response to locall	y available materia	ls			
48.	-	PUDA regulations, the above shall be minim		l any no	n-residential build	lo gnit	height 48
	(a)	16m		(b)	6 m		
	(c)	10m		(d)	½ the height of	the buil	ding
49.		sign, the geometric r dual parts of the comp	•				e ratio of
	(a)	Scale (b) Unity	(c)	Proportion	(d)	Balance
50.	'On hill top consisting of a rolling dark-coloured, pointed roof on smooth, whitewashed concrete walls with small punched-in openings expressing the ideas of the Archite about volume, light & plan'. Which iconic building does this refer to?						
	(a)	Notre Dame Chapel	at Ronchamp	(b)	Villa Savoy at Po	oissy	
	(c)	United' Habitation in	n Marseilles	(d)	Parliament at Cl	handiga	ırh
51.		architectural firm h Numbai International		itional c	ompetition for th	ne desi	gn of the
	(a)	Gensler, USA		(b)	Zaha Hadid Arch	nitects	
	(c)	HOK, USA		(d)	Architect Hafee	z Contra	actor
52.		Chandigarh Master p I size of:	lan, except for 10	sectors,	the rest of the s	ectors a	are of the
	(a)	600 m x 600 m		(b)	800 m x 800 m		
	(c)	1200 m x 1200 m		(d)	800 m x 1200 m	1	
53.	Grilla	ge foundation					
	(a)	is used to transfer he bearing Capacity	avy structural loads	s from st	eel columns to a s	soil hav	ing low
	(b)	is light and economic	cal				
	(c)	does not require deep intensity is obtained			se area with requir	red pres	sure
	(d)	All the Above					

54.		is the type of mo			•			constr	uction or	
	(a)	Local exhaust ven	itilatio	n (LEV)						
	(b)	Tunnel ventilation	n syste	em (TVS)						
	(c)	Underground ven	itilatio	n manager	nent syste	m				
	(d)	Plenum ventilatio	n syst	em (PVS)						
55.	use in that an shall n	nt stored on constr work & sent to La ny cement is defec ot be used in any v	b for tive a vork.	testing if th	ne Enginee e results o time perio	r-in f su od ii	-charge have rea ch tests are foun	sons to	consider	
	(a)	90 days	(b)	30 days	(C	;)	15 days	(d)	120 days	
56.	Which is the global award that recognizes efforts in New Urbanism and New Classical Architecture towards sustainable environments and is endowed with stupendous prize money?									
	(a)	The Driehaus Arcl	hitect	ure Prize	(b)	Pritzker Prize			
	(c)	AIA Gold Medal			(C	d)	Green Good Des	ign		
57.	resem	arliest Indian tow bles the petals of a treated as an island	lotu	radiating	=		<u>=</u> '			
	(a)	Padmaka			(b)	Nandyavarta			
	(c)	Sarvatobhadra			(c	d)	Dandaka			
58.	As per	NBC 2016, under sions?	'Fire	& Life safet	ty' section	wh	at are the three	broad (clauses of	
	(a)	Fire hazards, fire	rating	s, fire extin	guishers					
	(b)	Fire prevention, f	ire co	mpartment	ation, Fire	pro	otection			
	(c)	Fire prevention, f	ire sat	ety, fire pr	otection					
	(d)	Fire emergency in	n build	lings, firefig	ghting mea	sur	es, Life safety			
59.		deciding the typngs, which aspect sl				ent	and finishes fo	or pref	abricated	
	(a)	Suitability for mas	ss pro	duction tec	chniques					
	(b)	Use of lightweigh	t mat	erials in the	structural	sys	item			
	(c)	Possibility of using	g diffe	erent types	of finishes					
	(d)	All of the above								

60.	The coating applied to the visible (above-grade) portion of foundation walls to hide surface imperfections is termed as:										
	(a)	Parging	(b)	Weeping tile	(c)	Pilaster	(d)	Veneer			
61.		AC, the ratio of net designated operat		. ,	•	otal rate of elec	ctric inpu	t in watts			
	(a)	Energy Efficiency	Ratio	(EER)							
	(b)	Building Energy S	imula	tion (BES)							
	(c)	Building Manager	ment :	System (BMS)							
	(d)	Coefficient of Per	forma	ance (CoP)							
62.	systen	PUDA regulations, n to recharge grou s to plot areas of:			_	-		_			
	(a)	100 sq yard & abo	ove		(b)	1000 sq yard 8	k above				
	(c)	500 sq yard & abo	ove		(d)	None of the ab	oove				
63. Which architect and urban theorist emphasized on the depletion of non-cohesiveness of traditional urban structure?						urban sp	paces and				
	(a)	Charles Moore			(b)	B V Doshi					
	(c)	Rob Krier			(d)	Aldo Rossi					
64.	In a refrigeration system which is the component that is directly in contact with the object/space to be cooled?										
	(a)	Condenser			(b)	Compressor					
	(c)	Throttling device			(d)	Evaporator					
65.		ation of load on a I kness of slab in m,		•	_		5 kN/m2	, where D			
	(a)	Live load	(b)	Dead load	(c)	Floor finish	(d)	Overall load			
66.	for th	installation of Axia e protection from st outlet to outdoo	n extr	•		•		•			
	(a)	Bird screen			(b)	Double canvas	connect	ion			
	(c)	Acoustic silencer			(d)	Vibration isola	tor				

67.	Housing & Urban Development Department- Punjab oversees urban growth & development with specific objectives. Which of the following is NOT a listed objective?											
	(a)	Regulate planned the citizens	d urbai	n expansion t	o aid provis	sion of adequa	te infrastri	ucture to				
	(b)	Create healthy co	ompeti	tion amongs	t various bu	ısinesses in url	oan cores					
	(c)	Formulate policie	es and	schemes for	urban deve	lopment						
	(d)	Boost investmen towns	t oppo	rtunities by a	ccelerating	economic gro	wth of citi	es and				
68.		of the following berger?	g citie	s was desig	ned by Ge	erman Archite	ct & Plar	ner Otto				
	(a)	Chandigarh			(b)	Navi Mumba	i					
	(c)	Bhubaneshwar			(d)	Salt Lake- Ko	Ikata					
69.	In a project, post the issual of completion certificate, in the case of latent defects observed because of materials and of design respectively, who shall be liable to whom?											
	(a)	Contractor is liab	le to A	rchitect in bo	th cases							
	(b)	Architect is liable	to his	client in both	n instances							
	(c)	Contractor is liab	le to e	mployer & A	rchitect to l	nis client, respe	ectively					
	(d)	Contractor is liab	le to t	he client and	Architect to	o the professio	n, respect	ively				
70.	The ratio of the moment of inertia of a circular plate and that of a square plate for equal depth, is											
	(a)	less than one			(b)	more than on	ie					
	(c)	equal to one			(d)	equal to $3\pi/1$	6					
71.	For de	picting interior de	tails, tl	ne advantage	of Two-po	int perspective	shall be:					
	(a)	VPL lies within th	e drav	ving								
	(b)	Enables three sid	les of t	he space to b	e shown							
	(c)	Reverse image of	f the g	rid may be us	ed							
	(d)	All of the above										
72.	Localit which	ies such as Model LPA?	Town	, Bazaari Con	npany, Indi	ra Colony, Abr	ol Nagar a	re part of				
	(a)	Pathankot	(b)	Batala	(c)	Goindwal	(d)	Gurdaspur				

Which of the following is a drawback of using fly ash in building construction?										
	(a)	Can substitute f	or P	ortland cement.						
	(b)	Considered a no	on-sl	hrink material						
	(c)	Reduces CO2 er	nissi	ions						
	(d)	Slower strength	gai	n						
74.	Matc P	h the following me Exhaust system	echa 1	nical ventilation syst Supplying fresh air in			•			
	Q	Plenum system	2	Removing used air & openings	letting f	resh air find its way	throug	h		
	R	Positive system	3	Both supplying & rem	noving a	ir				
	S	Balanced system	4	Supplying air into the grilles etc.	space a	and forcing out used	air thro	ough		
	(a)	P-2, Q-4, R-1, S-	3		(b)	P-4, Q-2, R-1, S-3	3			
	(c)	P-2, Q-1, R-4, S-	3		(d)	P-3, Q-2, R-4, S-1	L			
75.	The L	aw of Polygon of	For	ces states that						
	(a)	If a polygon representing the forces acting at point in a body is closed, the forces are in equilibrium								
	(b)	sides of a polyg	If forces acting on a point can be represented in magnitude and direction by the sides of a polygon taken in order, then the resultant of the forces will be represented in magnitude and direction by the closing side of the polygon							
	(c)	If forces acting	on a	point can be represe	nted of	a polygon taken ii	n order	; their		
			-	taken in order, their reclosing side of the p		-		_		
	(d)			point can be represe in order, the forces ar		•	rection	by the		
76.		ructed extensively	•	lar method of stru- the past in most flo		•				
	(a)	Channel improv	eme	ent	(b)	Dredging of rive	rs			
	(c)	Flood plain zoni	ng		(d)	Embankments				
77.	'Finge	er Plan' concept of	furb	oan planning was init	ially add	opted in which city	y?			
	(a)	Paris	(l	b) Copenhagen	(c)	Canberra	(d)	Tokyo		

78.	incor	neteenth and twentieth-century architectural style in which a single piece of work orates a mixture of elements from previous historical styles to create something new and original is termed as:								
	(a)	Eclecticism			(b)	Deconstructiv	vism			
	(c)	Revivalism			(d)	Art nouveau				
79.	As pe	er the Burgess mode s?	l of ci	ty planning, wl	hich of the	e following is n	ot one of	the listed		
	(a)	Central business	distric	t	(b)	Zone of trans	ition			
	(c)	Commuter's zone	!		(d)	Depleting zor	ne			
80.	Ident	ify the right sequen	ce in u	ındertaking a t	ypical cha	in survey proce	edure.			
	(a)	Reconnaissance - - Sketching	Choic	e of Stations -	Station N	Marking - Witn	essing - C	offsetting		
	(b)	Choice of Stations Sketching	s - Re	connaissance -	Witnessir	ng - Station Ma	rking - Of	fsetting -		
	(c)	Reconnaissance - Witnessing – Offsetting - Choice of Stations - Station Marking - Sketching								
	(d)	Sketching- Recon Offsetting	naiss	ance - Station N	Marking -	Choice of Stati	ons - Wit	nessing -		
81.	and inter	ceptors are devices permitting normal ceptors in first colund column.	liqui	id wastes to	discharge	e to the sev	ver. Co-r	elate the		
	P	Grease interceptors	1			different solid pa		m the		
	Q	Oil separators	2	used for kitche establishments		rias, restaurants,	, and simila	ır		
	R	Sand interceptors	3	used where fla sewer	ımmable lid	quids might be d	lischarged [.]	to the		
	(a)	P2 Q3 R1	(b)	P4 Q2 R1	(c)	P2 Q3 R1	(d)	P2 Q1 R3		
82.	Whic	Which of the following is correct w.r.t Apartment design?								
	(a) Carpet area- Wall area= Common area									
	(b)) Built up area+ Common area= Super built up area								
	(c)	Carpet area+ Com	nmon	area= Super bເ	uilt up are	a				
	(d)	Wall area+ Comm	on ar	ea= Built up ar	ea					

83.	Prades	raditional vernacul sh involving altern r for walls over wh Dhajji-Dewari styl Mud houses	ative ich tin	layers o	f timber	beams	s and dry-stone o	course	
84.	Which	has high modulus	of ela	sticity als	so called a	s Your	ng's modulus?		
	(a)	Steel	(b)	Alumin	um	(c)	Tin	(d)	Wood
85.	the tal	rpentry device use ble while the other lined with hard wo	is mo	ovable by	, means o		-		
	(a)	Carpenter's bench	h vice			(b)	C- clamp		
	(c)	Bar clamp				(d)	Jack plane		
86.		ilding approvals in ing is a mandatory	-		one of th	e con	npliance report lis	ts, whi	ich of the
	(a)	Construction tech	nique	e roadma	р				
	(b)	Construction and	Demo	olition (C	&D) Waste	e Man	agement		
	(c)	Alternate energy	gener	ation					
	(d)	Site edge manage	ement						
87.		of the following pment?	ng ar	e NOT	necessar	ily in	nplications of Ti	ransit	oriented
	i	Reduced househo		•					
	ii 	Reduced environ		•					
	iii iv	Reduced air pollu Reduced living st		_	ouse gas e	HIISSIC	JIIS		
	(a)	i & iii	(b)	i & ii		(c)	ii & iv	(d)	ii & iii
88.	GST as	applicable on all a	rchite	ctural an	ıd enginee	ering s	ervices rendered i	n India	shall be:
	(a)	28%				(b)	18%		
	(c)	12%				(d)	Not applicable		
89.	In CAD), if a line is drawn	betwe	en point	s 2, 5 and	-3, 5,	its absolute length	n shall	be:
	(a)	Four units				(b)	Five units		
	(c)	One unit				(d)	Insufficient date		

90.	A fact	or that is NOT c	ritic	al to the success	of ur	banism i	is:		
	(a)	The level of de	etail	l at pedestrian so	cales				
	(b)	The expressive	e sty	yle of buildings					
	(c)	The shape and	d po	sition of building	gs, and	d how th	ney shape public spa	ce	
	(d)	The aesthetic	cha	racteristics of sti	reetsc	apes			
91.		n the following	g c	omponent with	the	related	l aspect applicable	to	bamboo
		mboo nodes	1	To be avoided in	bamb	oo joine	ry		
	Q Cu	tting bamboo	2	Bamboo column	s or be	eams nee	ed to have these at bo	th end	ds
	R Co	nventional nails	3	Used when there	e is no	lashing v	wire available		
	S Fla	p joint	4	Does not require	e heav	y power t	tools		
	(a)	P-2, Q-4, R-1,	S-3			(b)	P-3, Q-1, R-4, S-2		
	(c)	P-2, Q-4, R-3,	S-1			(d)	P-3, Q-2, R-4, S-1		
92.	result	•	rgin	ng of originally se		_	area of urban deve or cities such as Gr	•	
	(a)	Conurbation				(b)	Megalopolis		
	(c)	Megapolis				(d)	Satellite towns		
93.			-	which suggests onnected by trar		_	ies develop by the is called as:	spre	eading of
	(a)	Sector model				(b)	Concentric zone m	odel	
	(c)	Multiple nucle	ei m	odel		(d)	CBD model		
94.				oosed to be a st ne construction o		•	quiring considerable ture is called as:	skill	to make
	(a)	Lap joints				(b)	Briddle joints		
	(c)	Dowell joints				(d)	Mortise and Tenor	Join	ts
95.	The 'N	/lodular' develo	ped	by Le Corbusier	is bas	ed on w	hich of the following	g?	
	(a)	Golden ratio o	or pl	hi		(b)	Fibonacci series of	numl	bers
	(c)	Both a & b				(d)	Mandala		

96.	colum		transfer	loads from t	he structure	to the soil &	vith steel, supporting which is spread over
	(a)	Footing found	ation		(b)	Diaphragm	walls
	(c)	Floating found	lation		(d)	Raft founda	ation
97.	The M	lunsell color sys	tem orga	nizes colors	according to):	
	(a)	Three scales o	f hue, va	lue, and chro	oma in a thre	ee-dimensior	nal form
	(b)	Their relations	ship to th	e primaries	as organized	in a circle	
	(c)	Five principle l	hues and	their values	on a wheel		
	(d)	The hue and v	alue in a	matrix syste	em		
98.	Which	n of the following	g is NOT	a method of	achieving ea	arthquake res	sistant structure?
	(a)	Base isolation	method		(b)	Soft storey	
	(c)	Seismic dampe	ers		(d)	Steel plate	shear wall
99.		sprinkler system uilding. Which of	_	-		• •	nnecting all spaces in
	(a)	Tree	(b)	Loop	(c)	Knot	(d) Grid
100.		inear perspectiv or to converge is		_	h all sets of	parallel line	es within a plane will
	(a)	Vanishing trac	e (VT)		(b)	Horizontal	plane (HP)
	(c)	Merging plane	e (MP)		(d)	Vanishing p	ooint (VPi)
				Section	n-II		
101.	'Limi	ts to growth'					
	(a)	C		f exponentia	ıl economic a	and populatio	n growth with a finite
	(b)	Study of factor	rs affecti	ng growth of	f a city		
	(c)	Constraints of	provisio	n of infrastru	icture for gro	wing city	
	(d)	Statistical anal of a city	lysis of c	ity area and	requirement	of residences	for deciding growth
102.	In Co		lia Funda	amental duty	of citizens	to protect en	vironment is ensured
	(a)	Art. 48A	(b)	Art. 51A(g	(c)	Art. 17	(d) Art. 21

103.	Which i ii iii iv	slope urbanisation land cover precipitation		esponsible for in	creasing	surface -runoff		
	(a)	ii	ı		(b)	ii & iii		
	(c)	iv			(d)	none of the above	;	
104.	Endog	genous process	es of landf	form leads to form	nation o	f		
	i	mountains						
	ii	plains						
	iii	plateau						
	iv	sand dunes			4. \			
	(a)	i			(b)	i ⅈ		
	(c)	i, ii & iii			(d)	All of the above		
105.	Metro	polis is the cla	ssification	of urban settlem	ent as po	opulation		
	(a)	>50,000 < 1	1,00,000		(b)	>1,00,000 < 5,00	0,000	
	(c)	>5,00,000 <	<10,00,000)	(d)	≥ 10,00,000		
106.	Analy	tical Hierarchy	Process					
	i	relative weig	ghts					
	ii	relative rank						
	iii	multiple crit	eria					
	iv	analyzing						
	(a)	i & ii			(b)	iii & iv		
	(c)	ii, iii & iv			(d)	All of the above		
107.	Cartog	grams are						
	i	resize and ex	kaggerate a	ny variable on a	n attribu	te value		
	ii	thematic ma						
	iii	•	•	onvey informatio				
	iv	-	ich statisti	cal information i	s shown	in diagrammatic fo	orm	
	(a)	i & iii			(b)	ii & iii		
	(c)	i, ii & iii			(d)	all of the above		
108.	Closed	d, Dichotomo	us, Bipolar	are types of				
	(a)	roads	(b)	infrastructure	(c)	questionnaire	(d)	finance

109 .	Const	rictive population	on pyrami	id structure i	s an age stru	cture, in which				
	(a)	Larger percen	tage of po	opulation is:	in the younge	er age group				
	(b)	Lower percent	tage of po	opulation is i	in the younge	er age group				
	(c)	Equal percent	age for po	opulation in	all age group	S				
	(d)	there is no fix	-	-						
110.	Basic	parameters for o	determini	ng Human I	Development	Index are				
	i	Life expectan		C	1					
	ii	Education								
	iii	Per capita inc	ome							
	iv	Family size								
	(a)	i & ii			(b)	i, ii & iii				
	(c)	ii & iv			(d)	All of the abov	re			
111.	Basic	objective of reg	-	-						
	i	Decentralizati	-							
	ii :::	Regulate grov		an areas						
	iii iv	Resource distributed Balanced grow								
		_			(0)	0 :	(പ)			
	(a)	i & ii	(b)	ii & iii	(c)	iii & iv	(d)	i & iii		
112.		Town and Reg provision of	ional Pla	nning and D	evelopment l	Law, 1962, revis	ed 1985	doesnot		
	(a)	preparation of	existing	land use ma	p					
	(b) preparation of outline Development Plan									
	(c)	preparation of	detailed	schemes of	development	and redevelopn	nent as p	er plans		
	(d)	preparation of			1	•	1	1		
113.	OD su	rvey is conduct	ed to							
	(a)	Locate social	infrastruc	ture						
	(b)	Develop trip p	attern an	d travel choi	ice scenario					
	(c)	Find the lengt								
	(d)	Study human								
114.	As per	Kevin Lynch,	number o	of elements to	o build Image	e of a city are				
	(a)	4	(b)	5	(c)	6	(d)	7		

115 .	Inforn	nation not foun	d in censi	us document							
	i	Vocational so	chool								
	ii	Community l	nealth cer	ntre							
	iii	Tube well									
	iv	Common ser	vice centi	es	(1-)						
	(a)	i &iv			(b)	i & iii					
	(c)	iii & iv			(d)	None of the abo	ove				
116.	Wind-	rose gives									
	i	wind speed									
	ii	wind directio									
	iii	frequency of									
	iv	roughness of	wind								
	(a)	i			(b)	ii					
	(c)	i, ii & iii			(d)	All of the above	e				
117.	Inform	nal settlement l	nas:								
	i	Residential a	reas								
	ii			curity of tenur							
	iii			nd infrastructu							
	iv	May not con	nply with	current planni	ng and bui	lding regulations					
	(a)	i &iii			(b)	ii &iii					
	(c)	ii, iii & iv			(d)	all of the above					
118.	Brund	Itland Report co	oined and	propagated the	e term						
	(a)	Resilience	(b)	inclusive	(c)	Sustainability	(d)	Equity			
119.	Which	n of the stateme	ent is not	True for PERT	•						
	(a)	It is a probab	ilistic mo	del							
	(b)	It is a determ	inistic mo	odel							
	(c)	Activity time	is estima	ted							
	(d)	•		one critical pa	ıth						
120.	Trans	fer of Developr	nent Righ	nt (TDR) is a							
	(a)										
	(b)	System to transfer ownership of land									
	(c)	incentive- based program that allows landowners to sell FAR of a plot									
	(d)					nent of an area	•				

121 .	Conto	our lines merge or cross each other at		
	(a)	plain surface	(b)	valley
	(c)	plateau	(d)	overhanging cliff
122.	Exam	ples of Renewable energy sources are		
	i	Biofuel		
	ii 	Hydro power		
	iii :	Geothermal Tidal Power		
	iv (a)		(b)	:: 0-:::
	` '	i & ii	(b)	ii &iii
	(c)	none of the above	(d)	all of the above
123.	Bhuva	an is a		
	(a)	Analytical tool	(b)	Survey system
	(c)	Computation software	(d)	Geo-platform
124.	Advo	cacy planning works on the principles of		
	i 	inclusive		
	ii :::	plurastic		
	iii iv	represents interest of various groups capitalism		
	(a)	i & iii	(b)	ii & iii
	(c)	i, ii & iii	(d)	all of the above
	(0)	1, 11 & 111	(u)	an of the above
125.	Which	h Information is not derived from sun-path	diagra	m
	i 	Annual changes in the path of the sun		
	ii iii	Solar intensity solar altitude		
	iv	solar Azimuth		
	(a)		(b)	ii
	(c)	iii & iv	(d)	none of the above
126.	'HPE	C 'under headship of chairperson Dr. Isher	Judge	Ahluwalia, worked for
	(a)	urban governance	(b)	urban management
	(c)	urban infrastructure	(d)	urban environment
127.	Gross	density includes		
	i	residential areas		
	ii 	roads		
	iii	open spaces	(1.)	
	(a)	i	(b)	i & ii
	(c)	i & iii	(d)	All of the above

128.	Objec	Objective of RERA are										
	i	protect the intere	st of c	ustomer								
	ii	promote fair play			etions							
	iii	ensure timely ex			_							
	iv	offer single wind	low sy	stem of clearan	ice for rea	l estate projects						
	(a)	i & iii			(b)	ii & iii						
	(c)	i & iv			(d)	all of the above						
129.	Envir factor	onmental guideline s	s for s	setting of Indus	tries as pe	r Rules 1999, con	siders	following				
	i	Highways										
	ii	Proximity to wat	er reso	ources								
	iii	Major settlement										
	iv	Availability of ra	aw ma	terial resources								
	(a)	ii & iii			(b)	i, ii & iii						
	(c)	ii, iii & iv			(d)	all of the above						
130.	URDI	PFI guidelines, Vol	ume I	I A contains gu	idelines fo	or						
	(a)	Institutional refor	rms		(b)	Resource mobilis	ation					
	(c)	Planning process			(d)	Legal aspects						
131.	Mille	nnium developmen	t goals	s were launched	l in an	d were in nun	nbers					
	(a)	2000, 08	(b)	2000, 17	(c)	2015, 08	(d)	2015, 17				
132.	Popul	ation pyramids are										
	i	Expansive										
	ii	constrictive										
	iii	stationary										
	(a)	i			(b)	I & iii						
	(c)	All of the above			(d)	None of the abov	re					
133.	Garba	ige-can model is										
	i	irrational model										
	ii	decision –making	_									
	iii	solutions may be	propo	osed even when	problems	do not exist						
	iv	random decision										
	(a)	i & ii			(b)	i & iii						
	(c)	i, ii & iii			(d)	all of the above						

134.	Thom	as Kuhn is associa	ted wi	th						
	(a)	collaborative the	ory		(b)	feminist approa	ch			
	(c)	Paradigm shift			(d)	Participatory ap	proach			
135.	Carry	ing capacity								
	(a)	Area that can sup	port c	one specie						
	(b)	Largest population	on of s	pecies that a p	articular ar	ea can support				
	(c)	Load of structure				11				
	(d)	Load of structure								
136.	Gutm	an scalogram is a								
	i	Cumulative scal	ing							
	ii	Ordinal scale								
	iii	One dimension of		ıum						
	iv	Empirical metho	od							
	(a)	i & ii	(b)	ii & iii	(c)	i, ii & iii	(d)	iii & iv		
137.	Purpo	se of Comprehens	ive Mo	bility Plan is						
	(a)	Mobility of all			(b)	Mobility of veh	icles			
	(c)	Mobility of good	ls		(d)	Flow of econom	ny			
138.	Huma	n population if un	checke	ed grows at a G	eometric c	or Exponential rat	e			
	(a)	Malthusian theor	ry		(b)	Herbert Spencer	r biolog	ical Theory		
	(c)	Optimum theory	of po	pulation	(d)	The demograph	ic trans	ition theory		
139.	UDPF	FI guidelines were	propos	sed in while	URDPFI ;	guidelines were p	roposeo	d in		
	(a)	1996,2012	(b)	1996, 2014	(c)	2002, 2012	(d)	2002, 2014		
140.	'Valu	e capture financing	g is							
	(a)	public transport	facility	should be sub	sidised					
	(b)	Generated reven				pment				
	(c)	the cost of inves		•		-				
	(d)				•	rastructure shoule	d pay fo	or it		
141.	Medie	eval period towns v	were							
	i	Narrow streets								
	ii	Towns surround	ed by 1	moats						
	iii	Grid-iron pattern of roads								
	iv	Ir-regular streets								
	(a)	i & ii	(b)	ii & iii	(c)	ii & iv	(d)	i, ii & iv		

142.	Interg	overnmental Panel	on Cl	imate change is	s to							
	(a)	Decide systems to	addr	ess climate cha	inge							
	(b)	Facilitates Climat	e cha	nge negotiation	ıs							
	(c)	Assessing the scient	ence r	elated to climat	te change							
	(d)	(d) Controls action for climate change mitigation										
143.	Seque	entially arrange the	follov	ving as per four	stage mo	del for transportati	on pla	nning				
	i ii	Trip generation Mode choice										
	11 111	Trip distribution										
	iv	Route choice										
	(a)	i,ii,iv,iii	(b)	i,iii,ii,iv	(c)	i,iv,ii,iii	(d)	i,iii,iv,ii				
144.	Peri-U	Jrban area										
	i 	rural area abutting urban settlement										
	ii iii	characterized by organic growth controlled by municipality										
	iv	transitional area	шстра	шц								
	(a)	i & ii			(b)	i, ii & iii						
	(c)	i, ii & iv			(d)	All of the above						
145.	Meso	lithic age										
	(a)	acquired the skill to develop crude tools										
	(b)	dependent on technology										
	(c)											
	(d)	Adopted agriculture										
146.	URDI	PFI guidelines are fo	or									
	i 	Core Area planni	_									
	ii iii	Specific and inve		_								
		i	Surtati	ive approach	(b)	ii						
	(a) (c)	ii & iii			(b)	all of the above						
147.	Non-s	spatial data refers to	ı									
-	(a)	Hypothetical figures										
	(b)	projected informa										
	(c)	calibrated set of details										
	(d)	dataset that cannot			tion on ea	rth						
	(-)											

148.	Urban	nism is		
	(a)	the way of life characteristic of ci	ties and towns	3
	(b)	Level of development		
	(c)	Scale of infrastructure		
	(d)	Density of population		
149.	SPSS	is		
	(a)	analytical tool	(b)	empirical tool
	(c)	survey tool	(d)	evaluation tool
150 .	Hachu	are's lines are for		
	(a)	Strokes drawn in the direction of	the steepest sle	ope
	(b)	Strokes drawn in the direction of	the gradual slo	ppe
	(c)	Strokes drawn in the direction of	the higher grad	dient
	(d)	Strokes drawn in the direction of	the gradual gra	adient
151.	Politic	cal Economy refers to		
	(a)	Funds used in conducting of elect	tions and other	political activities
	(b)	Relation of production and trade	with law, cust	om and government
	(c)	Funds collected by political partie	es	
	(d)	Norms and Acts to frame guideling	nes for growth	
152 .	'Satur	ration Flow' is		
	(a)	Volume of water in drain	(b)	maximum rate of flow of traffic
	(c)	runoff on roads	(d)	capacity of a septic tank
153 .	It doe	s not come under controls of CRZ,	within stipula	ted distance
	i	Manufacturing hazardous substar		
	ii 	Discharge of untreated waste from		
	iii iv	Dumping of waste from Thermal Land reclamation	power station	S
	(a)	i	(b)	ii
	(c)	Iv	(d)	None of the above
	(0)	TV	(u)	Trone of the above
154 .		al, functional, vernacular are		
	(a)	Types of economies	(b)	Regional classifications
	(c)	Types of roads	(d)	Building classifications

155 .	'Not in my backyard' is a concept referring to								
	(a)	Resists unwanted development							
	(b)	Resists Back to back residential development							
	(c)	Resists planting of trees in backyard							
	(d)								
156 .	Geddian triangle is a relationship of								
	(a)	work, people, money	(b)	Man, shell, network					
	(c)	People, communication, economy (d) work, folk, place							
157 .	Method of formal Region delineation								
	(a)	Weighted index number method	(b)	Gravitational anal	ysis				
	(c)	regression	(d)	flow analysis					
158.	A town with a population of $40,000$ has an average household size of 4.0 . The number of occupied dwelling units is $9,000$ of which 10% are in a dilapidated conditions. The housing demand of the town is:								
	(a)	1700 (b) 1900	(c)	2400	(d)	2600			
159.	Ernest Burgess gave								
	(a)	Concentric zone model	(b)	Sector theory					
	(c)	Multiple nuclei model	Isolate estate mod	lel					
160.	Bequest Value								
	(a)	Charges for development of an area with state of art infrastructure							
	(b)	willingness to pay for preserving the environment in a given state for the benefit of the future generation							
	(c)	Value of attaining the best							
	(d)	Hidden value of benefits received with the use of technology							
161.	SLEUTH model helps in								
	(a)	Assessing Infrastructure requirement	(b)	urban growth mod	deling	5			
	(c)	population growth modeling	(d)	location of activit	ies				
162.	Likert scale								
	(a)	represent people's attitude to a topic							
	(b)	Multi-polar scaling method							
	(c)	Instrument for recording spatial details							
	(d)	Identifying gap between information							

163 .	Example of choropleth map							
	i	Per-capita income map ii Infrastructure layout map						
	ii							
	iii							
	iv	Land-use map						
	(a)	i	(b)	i & ii				
	(c)	iii & iv	(d)	All of the above				
164.	Greek towns							
	(a)) main roads converging to marketplace or temple						
	(b)	large urban spaces						
	(c)	monumental streets						
	(d)							
165.	Public participation in planning is the process of consulting							
	i 	affected individuals						
	ii :::	affected organisations						
	iii iv	government entities anonymous						
		•	(b)	: 0- :::				
	(a)	i & ii	(b)	i & iii				
	(c)	i, ii & iii	(d)	all of the above				
166.	'City as a living Organism' is the thought supported by							
	(a)	August Losch	(b)	Patrick Geddes				
	(c)	Gunnar mydral	(d)	Francois Perroux				
167.	Following is not a source of error in land surveying							
	(a)	Instrumental error	(b)	environmental error				
	(c)	natural error	(d)	Personal error				
168.	NSSO is a							
	(a) Statistical handbook			Open Government Data Platform				
	(c)	Planning guidelines	(b) (d)	Regulating authority				

169.	Ecosy	Ecosystem provides following services							
	i	provisioni	ng						
	ii	Regulating	2						
	iii	supporting	5						
	iv	cultural							
	(a)	i			(b)	i & ii			
	(c)	i,ii & iii			(d)	all of the above			
170.	Urban settlements fulfill following criteria								
	i	Population > 5000							
	ii	Population > 10000							
	iii	75% population involved in non-agrarian activities							
	iv	75% of male working force involved in non-agrarian activities							
	(a)	i & iii	(b)	i & iv	(c)	ii & iii	(d)	ii & iv	
