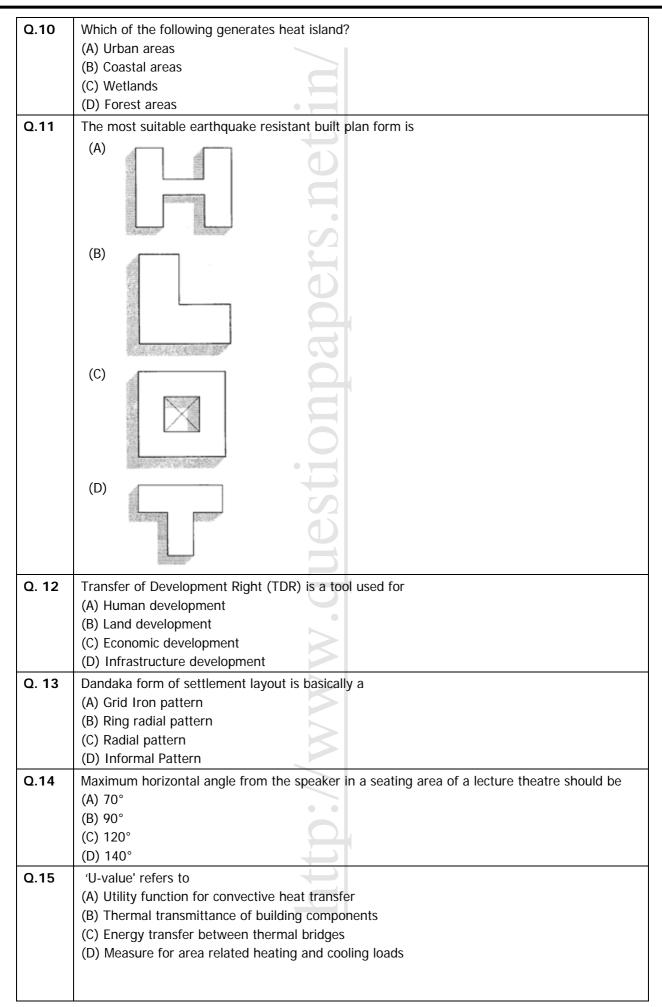
-	
	Q. 1 – Q. 25 carry one mark each.
Q.1	Capital town of Gandhinagar has been designed by
	(A) Norman Foster
	(B) B.V. Doshi
	(C) H.K. Mewada
	(D) Le Corbusier
Q.2	Rajiv Awas Yojana of Ministry of Housing, Government of India addresses housing for
	(A) Middle Income Group
	(B) Low Income Group
	(C) High Income Group
	(D) Slum Dwellers
Q.3	The triangular space formed by two consecutive arches is
2.0	(A) Tympanum
	(B) Spandrel
	(C) Regula
	(D) Extrados
Q.4	Rose Window is an iconic feature of
0.4	(A) Notre Dame, Paris
	(B) Hagia Sophia, Istanbul
	(C) St. Peter's, Rome
	(D) Victoria Memorial, Kolkata
0.5	
Q.5	Purity of colour is described by
	(A) Hue
	(B) Value
	(C) Chroma (D) Tone
0 (
Q.6	A slab simply supported on all its edges with a ratio of longer side to shorter side greater or equal to 2.0 is designed as
	(A) One way slab
	(B) Two way slab
	(C) Flat slab
	(D) Coffered Slab
Q.7	Entablature consists of
	(A) Architrave, Tenia, Cornice
	(B) Architrave, Frieze, Cornice
	(C) Frieze, Cornice, Triglyphs
	(D) Cornice, Guttae. Tympanum
Q.8	Town planned for 'Motor Age' refers to
	(A) Toronto, Ontario
	(B) Nassan Shores, Long Island
	(C) Radburn, New Jersey
	(D) Green Belt, Maryland
Q.9	The minimum road curb length required for parking 10 cars perpendicular to the road is
	(A) 15 m
	(B) 25 m
	(C) 35 m
	(D) 40 m

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0.44	
Q. 16	Consistency of cement is measured by
	(A) Pycometer
	(B) Slump cone
	(C) Universal Testing Machine
	(D) Vicat's apparatus
Q.17	The appropriate material for flooring of an external ramp of a building would be
	(A) Polished granite
	(B) Wax polished marble
	(C) Glazed ceramic tile
	(D) Rough finish sandstone
Q.18	Which of the following is NOT a member of a Steel Truss?
	(A) Gusset Plate
	(B) Wall Plate
	(C) Fish Plate
	(D) Anchor Bolts
Q.19	Identify the odd one among the following
	(A) Security deposit
	(B) Professional tax
	(C) Performance bank guarantee
	(D) Earnest money
Q.20	
Q.20	Weep hole is a term used to describe
	(A) Perforations in the cast iron pipe used for boring
	(B) Holes in retaining wall for draining water
	(C) Holes in the cover plate of floor traps
	(D) Holes dug in earth to recharge ground water
Q.21	Busway, Busduct and Raceway are components of
	(A) Security systems
	(B) Air conditioning systems
	(C) Electrical systems
	(D) Water supply systems
Q.22	The difference between Wet Bulb Temperature and Dry Bulb Temperature is called
Q.22	(A) Dry bulb depression
	(B) Wet bulb depression
	(C) Variable depression
	(D) Atmospheric depression
Q.23	In India, one of the Slum Improvement initiatives is
	(A) Special Residential Zone
	(B) Valmiki Ambedkar Malin Basti Awas Yojana
	(C) Indira Awas Yojana
	(D) Eco Housing
Q.24	Suspended Floors is a structural system used in
	(A) Lloyds Building, London
	(B) Jin Mao Building, Shanghai
	(C) Petronas Tower, Kualalampur
	(D) Hongkong Shanghai Bank, Hongkong
Q.25	Residual method of valuation is used to determine
	(A) Public Private Partnership Deal
	(B) Rent
	(C) Property Tax
	(D) Selling Price
1	

	Q. 26 to Q. 55 carry two marks each.									
Q.26	Match the buildings in Group I with their architects in Group II									
	Grou	ıp I				Gro	up II]		
	Ρ.	Bibliotheca	Alexa	ndrina, Alex	kandria	1.	I.M. Pei			
	Q.	Institut du M	Nonde	e Arab, Pari	s	2.	Jean Nouvel			
	R.	Bank of Chi	na, H	ongkong		3.	Daniel Libeskind			
	S.	Jewish Muse	e um ,	Berlin		4.	Renzo Piano			
						5.	Snøhetta			
	(A) P-5, Q-2, R-1, S-4									
	(B) P-5, Q-4, R-1, S-3									
		4, Q-2, R-5,								
0.07		·5, Q-2, R-1,								
Q.27								t 3 m height. The room ectively. The quantity of		
		ring require						cuvery. The quantity of		
	(A) 46	5.5								
	(B) 48									
	(C) 51									
0.00	(D) 68					<u> </u>				
Q.28		ubic metre c to 3 cum	of Orc	linary Portla	and Cer	ment yie	elds a volume of MTS	5 concrete in the range of		
		to 5 cum								
		to 8 cum								
	• •	to 9 cum			-					
Q.29	Match	the CAD co	mma	nds in Grou	p I with	n their f	unctions in Group II			
	Grou	ıp I	Gro	up II	D	$\mathbf{)}$				
	Ρ.	LAYISO	1.	blends se	lected	object t	o destination layer			
	Q.	LAYMCH	2.	freezes la	yer of s	selected	l object			
	R.	LAYMRG	3.	hides or l	ocks la	yers oth	er than those of			
				selected of	objects	•				
	S.	LAYLCK	4.	assigns se	elected	object	to destination layer			
			5.	locks obje	ect of d	estinati	on layer			
	• •	2, Q-4, R-1,				>				
	• •	3, Q-2, R-1,			9	>				
	• •	4, Q-2, R-3, ·3, Q-4, R-1,								
Q.30	• •			Group L with	h their	corresp	onding structural for	ms in Group II		
2.00	Grou	-	<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Group					
	P.	Hall of Nat	ions	New			al Structure	-		
		Delhi	101137	NCW .		oprierie				
	Q.	Salvacao C	hurch	n, Mumbai	2.	Folded	Plates			
	R.	State Trad	ing Co	orporation	3.	Octahe	dral lattice structure			
		Building, N	ew D	elhi						
	S.	Matrimand	ir, Au	roville	4.	Vierenc	eel girders	_		
					5.	Shell ro	of structure			
	• •	3, Q-5, R-4,								
		2, Q-5, R-4,								
	• •	3, Q-5, R-4, 3, Q-5, R-2,								
		- <u></u> , <u>с</u> - <u></u> , к- <u></u> ,	3-1							

	Identify the INCORRECT statement									
Q.31		5								
	(A) Guggenheim, Bilbao is an example of Deconstructivism (B) Silver Abstraction is a term used for motal clad modem high rise buildings									
			Abstraction is a term used for metal clad modem high rise buildings							
		C) Spiral Building in Tokyo has a curvilinear built form								
		Free Building plan form is a concept given by Le Corbusier								
Q.32	Match the terms in Group I with their descriptions in Group II.									
	Group I Group II									
	Ρ.	Quoin	1.	Ge	eometric representation of the universe					
	Q.	Stucco	2.		nall dome					
	R.	Mandala	3.	Triangular form above an opening						
	S.	Cupola	4.	4. Corner stone at the angle of buildings						
			5.	Pla	aster Salar					
	• •	4, Q-3, R-2, S								
		3, Q-5, R-1, S								
	• •	4, Q-5, R-1, S								
		3, Q-1, R-5, S								
Q.33	Match	the architect	ural	styl	es in Group I with their features in Group II.					
	Grou	рI	G	irou						
	Ρ.	West Asiation			Arches and pendentives					
	Q.	Greek	2		Pagodas					
	R.	Byzantine	3		Flying buttresses					
	S.	Japanese	4		Orders and pediments					
			5		Hanging gardens					
	(A) P-	3, Q-2, R-1, S	Q-2, R-1, S-4							
	(B) P-	5, Q-4, R-1, S	S-2							
	(C) P-	5, Q-4, R-1, S	S-3							
	(D) P-	4, Q-3, R-5, S	S-2							
Q.34	Gesta	t's Laws of vi	isual	per	ception DO NOT relate to					
	(A) Ae	esthetics of fo	orm a	re a	a function of Golden Section					
	(B) Th	nings are perc	eive	d as	s a whole					
	(C) W	hole is greate	er tha	n t	he sum total of its parts					
	(D) El	ements with	conti	nuit	y are perceived together					
Q.35	A site	in a map dra	wn to	o sc	ale of 1:16000 measures 75 sqcm. The actual area of the site in					
	hectar	es is								
	(A) 12	0								
	(B) 16	2								
	(C) 19									
	(D) 25	56								
Q.36	Identi	fy the CORRE	ECT C	CAD	statements.					
					ce of line segments into a single object					
					ve passing through or near a given set of points					
					ne segments, arc segments or both					
				-	y when its start and end points are coincident and tangent					
		-		-	he width and curvature of its multiline segments into smaller segments					
			-		into a continuous curve segment					
		R, S, U								
		R, T, V								
		S, T, V								
		T, U, V								

Q.37	Match the eminent personalities in Group I with their books and statements in Group II.						
	Grou	рI		Grou	ip H		
	Ρ.	Kevin Lynch		1.	The Fountainhead		
	Q.	Ayn Rand		2.	Small is Beautiful		
	R.	Paul D. Spreir	egen	3.	Site Planning		
	S.	E. F. Schumad	cher	4.	Urban Design : Architecture of Towns and Cities		
				5.	Design of Cities		
		4, Q-2, R-5, S-3					
		3, Q-1, R-2, S-					
	• •	5, Q-1, R-4, S-2					
0.20		3, Q-1, R-4, S-2		a al line Ca	and the terms listed in Cas		
Q.38					roup I with the towns listed in Gro	up II.	
	Grou		Grou				
	P.	Grid Iron	1.	New D			
	Q.	Radial	2.		ngton D.C.		
	R.	Linear	3.	Copen			
	S.	Finger plan	4.	Mumb			
			5.	Canbe	rra		
	• •	2, Q-1, R-4, S-3					
		3, Q-1, R-2, S-					
	• •	3, Q-1, R-4, S-2 2, Q-1, R-4, S-2					
Q.39		der the followin					
0.37		gth finely prop	•		width		
		• • • •			he sky above cornice lines		
		intains signifyin		•	-		
					ected by traditional narrow streets	, column screens or arches	
			n desi	gn whic	h comprises the above is		
	(A) Vis						
	(B) Pia	azza ond Point					
	(D) Bo						
Q.40	• •	•	ts in G	iroup I	with their corresponding functions	in Group II.	
	Grou		1	up II			
	P.	Hygrometer	1.	r.	pitation		
	Q.	Disdrometer	2.		Pressure		
	R.	Anemometer	3.	· ·	Radiation		
	S.	Manometer	4.		ve Humidity		
			5.		ty of Air		
	(A) P-	4, Q-1, R-2, S-3					
	• •	4, Q-3, R-2, S-!					
	(C) P-	1, Q-2, R-5, S-4	4				
	(D) P-	4, Q-1, R-5. S-3	2				
	1						

Q.41	Match the features in Group I with the corresponding type of garden in Group II.							
	Grou							
	Ρ.	Symmetrical la entombment	ayout,	water cascades,	1.	French gardens		
	Q.	Radial layout, boulevards	symn	netrical sculpture,	2.	English gardens		
	R.	Occult Symme stepping stone	5 1	ontoon bridges,	3.	Chinese gardens		
	S.	Hierarchy of c gates, zoomor			4.	Mughal gardens		
				LS	5.	Japanese gardens		
	(A) P-	2, Q-1, R-4, S-3	}	Ó				
		4, Q-1, R-5, S-3						
	• •	4, Q-3, R-5, S-1						
Q.42		5, Q-1, R-2, S-3		o of onclosuros in a	hior	archy of decreasing	ordor	
0.42	Απατιξ	ge the following	30113	e or enclosures in a			order	
		~				A	1	
	~/	$ \sum_{i} $	\sim	0 00				
	¢.	1 5		× < ×		<	2 6 2	
		/ \	\checkmark	\sim		\checkmark		
		Р	Q	R		S	T U	
	(A) S	> Q > U > P >	T > F					
	(B) U > S > Q > R > P > T							
	(C) $P > Q > R > S > T > U$							
	• •	> P > S > Q >			(
Q.43					espor	nding type in Group	II.	
	Grou		Grou					
	Ρ.	Fire hydrant	1.	Street Furniture		_		
	Q.	Planter beds	2.	Street Hardware				
	R.	Letter box						
	S.	Traffic signs						
	T.	Lamp Posts						
		2, Q-1, R-1, S-2 1, Q-1, R-2, S-1						
		1, Q-1, R-2, S-2						
		2, Q-1, R-2, S-2		• •				
Q.44							d C follow A. Activity D	
				follows C. Activity	^I follo	ows D and E.		
	Activ	3	A B	C D E F				
			3 2	5 6 5 3				
	(A) 14		mple	te the project will k	e			
	(B) 16	5						
	(C) 17	-						
) days						

Q.45	The maintenance cost of a building will be Rs. 2 lacs after 10 years. The annual sinking fund
	required for such maintenance @ 6 % interest per annum will be
	(A) Rs. 17,200/-
	(B) Rs. 15,200/-
	(C) Rs. 13,200/-
	(D) Rs. 11,200/-
Q.46	Match the figures in Group I with the fixtures in Group II.
	Group I
	P Q R S
	Group II
	1. Sink Cock
	2. Bib Cock
	3. Pillar Cock
	4. Stop Cock
	(A) P-1, Q-4, R-2, S-3 (B) P-2, Q-3, R-1, S-4
	(C) P-3, Q-1, R-2, S-4
	(C) P-2, Q-4, R-3, S-1
0.47	
Q.47	Match the joints in Group I with the corresponding figures in Group II.
	Group I P. Butt joint
	Q. Rebated joint
	R. Table joint
	S. Tongue & Groove joint
	Group II
	1. 2. 3. 4.
	(A) P-3, Q-4, R-1, S-2
	(B) P-4, Q-1, R-3, S-2
	(C) P-3, Q-1, R-2, S-4
	(D) P-3, Q-4, R-2, S-1
	Common Data Questions
	Common Data for Questions 48 and 49:
	A beam of span L is simply supported at two ends. One half span of the beam weighs W and
	the remaining half span weighs 2W.
Q.48	Maximum shear force in the beam will be
	(A) W
	(B) 1.25W
	(C) 1.75W
	(D) 3W
Q.49	Maximum bending moment will occur at
	(A) L/16 from midpoint of the beam
	(B) Midpoint of the beam
	(C) L/7 from midpoint of the beam
	(D) One of the endpoints of the beam

	Common Data for Questions 50	0 and 51:								
	A building site has a plot of 500 sq	Im								
	Maximum allowable height — G+7									
	Area to be utilized for paved acces	s roads — 10 %								
	Maximum ground coverage — 40%	6								
	Runoff coefficient for paved surface	e — 0.9								
	Maximum allowable FAR — 2.0									
	Runoff coefficient for unpaved surf									
Q.50		ed, the minimum ground coverage would be								
	(A) 20 %									
	(B) 25 %									
	(C) 30 %									
	(D) 35 %									
Q.51	If it rains for 30 min. with an intensity of 10 cm/hr, minimum volume of rain water that can be collected will be									
	(A) 12.75 cum									
	(B) 14 cum									
	(C) 15 cum									
	(D) 16 cum									
	Linked Answer Questions									
	Statement for Linked Answer (Questions 52 and 53:								
	An auditorium having volume of 45	500 cum and total absorption of all acoustic materials is 480								
	m ² sabine									
Q.52	The reverberation time of the audi	torium is								
	(A) 1.0 second									
	(B) 1.5 second									
	(C) 2.0 second									
	(D) 2.5 second									
Q.53	To reduce reverberation time by 0.5	second. additional absorption (m ² sabine) required would be								
	(A) 120									
	(B) 160									
	(C) 240									
	(D) 720									
	Statement for Linked Answer Questions 54 and 55:									
	A residential sector planned over an area of 100 hectares has been divided into various plots, each having one dwelling unit with an average household size of 5 persons. Remaining area is									
	devoted for schools, roads, parks,									
	Plot size Number									
	Plot size Number									
	F00 a mm F00									
	500 sqm 500									
	300 sqm 500									
	300 sqm 500 200 sqm 1000									
Q.54	300 sqm500200 sqm1000The gross density of the residentia	I sector in persons per hectare would be								
Q.54	300 sqm500200 sqm1000The gross density of the residentia(A) 100	I sector in persons per hectare would be								
Q.54	300 sqm500200 sqm1000The gross density of the residentia(A) 100(B) 150	I sector in persons per hectare would be								
Q.54	300 sqm500200 sqm1000The gross density of the residentia(A) 100	I sector in persons per hectare would be								
Q.54 Q.55	300 sqm 500 200 sqm 1000 The gross density of the residentia (A) 100 (B) 150 (C) 200 (D) 250	I sector in persons per hectare would be tion being higher secondary school going children and								
	300 sqm500200 sqm1000The gross density of the residentia(A) 100(B) 150(C) 200(D) 250Assuming 20% of the total populatexpected enrolment being 80% with	tion being higher secondary school going children and th per capita floor space requirement of 5.0 sqm, then								
	300 sqm500200 sqm1000The gross density of the residentia(A) 100(B) 150(C) 200(D) 250Assuming 20% of the total populatexpected enrolment being 80% withminimum land required for school	tion being higher secondary school going children and								
	300 sqm500200 sqm1000The gross density of the residentia(A) 100(B) 150(C) 200(D) 250Assuming 20% of the total populatexpected enrolment being 80% withminimum land required for school I(A) 1.0 hectares	tion being higher secondary school going children and th per capita floor space requirement of 5.0 sqm, then								
	300 sqm500200 sqm1000The gross density of the residentia(A) 100(B) 150(C) 200(D) 250Assuming 20% of the total populatexpected enrolment being 80% withminimum land required for school	tion being higher secondary school going children and th per capita floor space requirement of 5.0 sqm, then								

	General Aptitude (GA) Questions					
	Q. 56 - Q. 60 carry one mark each.					
Q.56	Choose the word from the options given below that is most nearly opposite in meaning to the given word: Amalgamate (A) merge (B) split (C) collect (D) separate					
Q.57	Choose the most appropriate word from the options given below to complete the following sentence. If you are trying to make a strong impression on your audience, you cannot do so					
	by being understated, tentative or (A) hyperbolic (B) restrained (C) argumentative (D) indifferent					
Q.58	Choose the most appropriate word(s) from the options given below to complete the following sentence.					
	I contemplated Singapore for my vacation but decided against it. (A) to visit (B) having to visit (C) visiting (D) for a visit					
Q.59	If Log (P) = (1/2) Log (Q) = (1/3) Log (R), then which of the following options is TRUE? (A) $P^2 = Q^3 R^2$ (B) $Q^2 = PR$ (C) $Q^2 = R^3 P$ (D) $R = P^2 Q^2$					
Q.60	Which of the following options is the closest in the meaning to the word below: Inexplicable (A) Incomprehensible (B) Indelible (C) Inextricable (D) Infallible					
	Q. 61 to Q. 65 carry two marks each.					
Q.61	A container originally contains 10 litres of pure spirit. From this container 1 litre of spirit is replaced with 1 litre of water. Subsequently, 1 litre of the mixture is again replaced with 1 litre of water and this process is repeated one more time. How much spirit is now left in the container? (A) 7.58 litres (B) 7.84 litres (C) 7 litres (D) 7.29 litres					
Q.62	A transporter receives the same number of orders each day. Currently, he has some pending orders (backlog) to be shipped. If he uses 7 trucks, then at the end of the 4th day he can clear all the orders. Alternatively, if he uses only 3 trucks, then all the orders are cleared at the end of the 10th day. What is the minimum number of trucks required so that there will be no pending order at the end of the 5th day? (A) 4 (B) 5 (C) 6 (D) 7					

