1.	Identify the first garden city from the following in UK which gave physical expression to Howard's ideas							
	(A)	Letchworth	(B) Welwyn					
	(C)	Stockfield	(D) Brentham					
	(E)	Answer not known						
2.		Method by which the last census is updated by simple apportioning based on previous statistics is called						
	(A)	Migration rate	(B) Censal ratio					
	(C)	Demographic ratio	(D) Decadal change					
	(E)	Answer not known						
3.	List the characteristics of Urbanism on urban system as stated by Louis Wirth from the following							
	(i)	(i) Transiency						
	(ii) Superficiality							
	(iii) Anonymity							
	(iv)	(iv) Individualism						
	(A)	(A) (i), (ii), (iii) and (iv)						
	(B)	(ii), (iii) and (iv)						
	(C)	(i), (iii) and (iv)						
	(D)	(i), (ii) and (iii)						
	(E)	Answer not known						

4.	Sir disp	Patrick proportions	Geddes, ate amoun							where as	a
	(A)	Financia	al city			(B)	Mone	etary	city		
	(C)	World ci	ty			(D)	Glob	al city	7		
	(E)	Answer	not knowr	1							
5.		ne the only	_		n area	in un	ited s	states	which	is withou	out
	(A)	San Fran	ncisco			(B)	Chica	ago			
	(C)	Houston				(D)	Atlaı	nta			
	(E)	Answer	not knowr	1							
6.	Mat	ch the cor	rect matcl	nes							
	(1)	IRDP		_	Integr Progra			deve	lopmen	ıt	
	(2)	TRYSEM		_	Traini Emplo	_		l You	th for S	Self	
	(3)	MWS		_	Millio	n Wea	aker S	Schem	nes		
	(4)	SHG		_	Social	Help	Grou	p			
	(A)	(1) and (2) are cori	rect							
	(B)	(2) and (3) are cor	rect							
	(C)	(3) and (4) are cor	rect							
	(D)	(1) and (4) are cor	rect							
	(E)	Answer	not knowr	ı							

7.	Asse	Assertion [A] :		Most of the Urban problems that concern us today can be traced to underlying changes in land use					
	Reas	son [R] :	The spar such pr talents a	oble	ems w	here	his	s pec	euliar
	(A)	[A] is true [R] is true							
	(B)	[A] is false [R] is true							
	(C)	[R] is false [A] is true							
	(D)	[A] is false [R] is false							
	(E)	Answer not known							
8.		output of products for f is referred to as a	r distribu	tion	solely	to 1	the u	ırban	area
	(A)	City activity	(B) 1	Place a	ctivit	У		
	(C)	Basic activity	(D) 1	Non bas	sic ac	tivity	y	
	(E)	Answer not known							
9.		—— can be defined a that reflects lo usionary new developmounding a deteriorating	w-density ent on th	, 8	automo	bile	- (depen	dent,
	(A)	Densification	(B) I	Deserti	ficati	on		
	(C)	Redevelopment	(D) S	Sprawl				

(E)

Answer not known

10.	Cen	tral place theory was proposed	by —	in the year 1935.				
	(A)	Walter Christaller	(B)	August Losch				
	(C)	Walter Isard	(D)	Ernest W. Burgess				
	(E)	Answer not known						
11.	locat	ne the theory which was mainl tion, and is based upon the as equal in unit rate and the cost luding the transportation cost)	sump t of p	otion that labour and capital roduction at different places				
	(A)	Concentric zone theory	(B)	Von Thunen model				
	(C)	Sector theory	(D)	Multi nuclei theory				
	(E)	Answer not known						
12.	Labo gene	our market policy, as desc erates the biggest agglomeratio		by Overman and Puga nefits when				
	(A)	All sectors have identical pro-	ducti	vity stocks				
	(B)	Sectors have heterogeneous, in correlated stocks but worker can move between them						
	(C)	There is only one dominant employer						
	(D)	Worker cannot change jobs w	ithou	t relocating				
	(E)	Answer not known						
13.	Con	Concentric zone concept was conceived by						
	(A)	Ernest Burgess	(B)	Robert Park				
	(C)	Louis Wirth	(D)	Jane Jacobs				
	(E)	Answer not known						

14.		———— is <u>not</u> a character of Rural communities?						
	(A)	Homogeneity in dress an	l culture					
	(B)	Informal social control						
	(C)	Higher social mobility						
	(D)	Greater hospitality						
	(E)	Answer not known						
15.		is characterized by shared beliefs, strong sense of commodidentity, lasting and genuine form of living together						
	(A)	Gesellschaft	(B) Gemeinschaft					
	(C)	Germanshaft	(D) Gesenshcaft					
	(E)	Answer not known						
16.	-	As per IGBC Green Townships rating system, for the award of platinum certification, the points required are in the range of						
	(A)	100-119	(B) 120-139					
	(C)	140-159	(D) 160-200					
	(E)	Answer not known						
17.	Mea	Meaning of Brownfield site is						
	(A)	Contaminated site	(B) Site filled with ea	arth				
	(C)	Sustainable site	(D) Greenfield site					
	(E)	Answer not known	• •					
	` '							

18.	The certification of a IGBC Green township is divided into thre stages. What percentage of the total project infrastructure must be constructed for "Stage I" certification?						
	(A)	25%	(B)	50%			
	(C)	75%	(D)	90%			
	(E)	Answer not known					
19.	One of the common gaseous air pollutants which is known to be injurious to human health is						
	(a)	SO_2					
	(b)	CO					
	(c)	NO_x					
	(d)	$\mathrm{H_2S}$					
	(A)	(a), (b)	(B)	(b), (c)			
	(C)	(c), (a)	(D)	(a), (b), (c), (d)			
	(E)	Answer not known					
20.	The factors includes in Economic Environment are						
	(1)	Employment					
	(2)	Politics					
	(3)	Demand patterns					
	(4)	Land value					
	(A)	(1), (3), (4)	(B)	(1), (2), (3)			
	(C)	(2), (3), (4)		(1), (2), (4)			
	(E)	Answer not known	` /				

- 21. What is the maximum imprisonment term for continuing environmental violation beyond one year after conviction under Section 15 of Environment (Protection) Act, 1986?
 - (A) 5 years

(B) 6 years

(C) 7 years

(D) 10 years

- (E) Answer not known
- 22. According to CRZ Notification 2019, what population density threshold distinguishes CRZ-III A from CRZ-III B areas?
 - (A) 2161 per square kilometer as per 2011 census
 - (B) 1500 per square kilometer as per 2011 census
 - (C) 2500 per square kilometer as per 2011 census
 - (D) 3000 per square kilometer as per 2011 census
 - (E) Answer not known
- 23. Based on the IGBC Rating System select the correct answer.

Assertion [A]: A sector (A combination of reversal sector form a

community) is considered the basic module of a

city.

Reason [R]: The design of sectors emphasizes on walkability,

interconnectivity, compactness and diversity.

- (A) Both [A] and [R] are true, and [R] is the correct explanation of [A]
- (B) Both [A] and [R] are true, but [R] is not the correct explanation of [A]
- (C) [A] is true, but [R] is false
- (D) [A] is true, but [R] is true
- (E) Answer not known

24.	For which category of projects does the district level environmental impact assessment authority primarily grant prior environmental clearance						
	(A)	(A) All new projects or activities listed in the schedule					
	(B)		ng central government clearance				
	(C)	Category 'B' projects requirir	ng state level EIA clearance				
	(D)						
	(E)	Answer not known					
25.	TOI	TOD is defined as development apparel that					
	(A)	focuses exclusively on building metro rail network					
	(B)	incorporate development around a transit node to induce preference for public transport over private transport					
	(C)	only applies to commercial zones near transportation hubs					
	(D)	Restrict all private vehicle access in urban areas					
	(E)	Answer not known					
26.		means any solid, liquid,	or gaseous substance present in				
		n concentration as may be fronment.	e, or tend to be injurious to				
	(A)	Air Pollution	(B) Noise Pollution				
	(C)	Environmental Pollutant	(D) Water Pollution				
	(E)	Answer not known					
27.		eptable noise level recommeninistration (U.S.A) for residen	mended by Federal Highway tial and schools areas is				
	(A)	75 dB	(B) 60 dB				
	(C)	65 dB	(D) 70 dB				
	(E)	Answer not known					

28.	According to Coastal Regulation Zone, 2011, means the line
	on the land up to which the highest water line reaches during the
	spring tide.

(A) High tower line

(B) Head tide line

(C) High tide link

(D) High tide line

- (E) Answer not known
- 29. The central pollution control board derives if statutory powers from which Act?
 - (A) Environmental Protective Act 1986 only
 - (B) Water (Preventive and Control of Pollution) Act, 1974 only
 - (C) Both Water Act 1974 and Air Act 1981
 - (D) An environmental act collectively
 - (E) Answer not known
- 30. In the context of Environmental Clearance process, what is the primary purpose of 'sloping'?
 - (A) To conduct a size inspection for environmental impacts
 - (B) To determine the detailed and comprehensive Term of reference for the preparation of EIA and environmental management report
 - (C) To ascertain the concerns of local affected persons through public hearings
 - (D) To make categorical recommendation for the grant or rejection of environmental clearance
 - (E) Answer not known

31.		is a technique of land de elopment potential of a land par	evelopment which separates the rcel for we elsewhere.
	(A)	Land Acquisition	
	(B)	Land Pooling	
	(C)	Land Recreation	
	(D)	Transferable Development Ri	ghts
	(E)	Answer not known	
32.	Deve appl the	elopment) Act, 2017, any relicable interest and compensat	Real Estate (Regulation and fund of money along with the tion payable by the promoter to from the date on which
	(A)	90 days	(B) 45 days
	(C)	30 days	(D) 120 days
	(E)	Answer not known	
33.	acco		mit or building permit shall be wn to a scale of not less than a radius of m.
	(A)	250	(B) 500
	(C)	750	(D) 1000
	(E)	Answer not known	

34.	prot	ected monument,	g at the limit of the protected area or the as the case may be, and extending to a cres in all directions shall be prohibited area.			
	(A)	25	(B) 50			
	(C)	75	(D) 100			
	(E)	Answer not know	n			
35.	3 of the	Upon the registration of a project as per Section 5 read with Section 3 of the Act (Real Estate (Regulation and Development) Act, 2016) the Authority shall issue a registration certificate with a registration number in to the promoter.				
	(A)	Form 'A'	(B) Form 'B'			
	(C)	Form 'C'	(D) Form 'D'			
	(E)	Answer not know	n			
36.	num stre	Permission for such private vending zones shall be given only if the number of vendors in such private vending zones together with the street vendors in that area shall not exceed of the population of that vending zone, area or location.				
	(A)	1%	(B) 1.5%			
	(C)	2.0%	(D) 2.5%			
	(E)	Answer not know	n			

37.	As	per Tamil l means				and rules ors are per	
	-	during certa	in hours of	the day or		-	
	(A)	Time restric	ted vending	zone			
	(B)	Restricted ze	one				
	(C)	Town vendir	ng zone				
	(D)	Street vendi	ng time				
	(E)	Answer not	known				
38.	Any land required, reserved or designated in a regional plan, master plan and detailed development plan for public purpose can be acquired through land acquisition Act 1894 as per section of Tamil Nadu Town and Country Planning Act.						
	(A)	36		(B)	26		
	(C)	46		(D)	16		
	(E)	Answer not	known				
39.	means an area having a population of ten lakhs or more comprised in one or two district and consisting of two or mor municipalities.						
	(A)	Cantonment	- ,	(B)	Metropoli	tan area	
	(C)	Utopian are	a	(D)	Rural area	a	
	(E)	Answer not	known	. ,			

- 40. According to 74th CAA, the constitution of a Metropolitan Planning Committee (MPC) for planning a Metropolitan Area is done for a population of
 - (A) > 50 lakh

(B) > 10 lakh

(C) > 20 lakh

- (D) > 5 lakh
- (E) Answer not known
- 41. Identify one parameter which is NOT the principles of urban renewal
 - (A) be humane and provide social justice
 - (B) strike balance among, physical, economic and environmental
 - (C) conserve socio cultural values
 - (D) involve stakeholders only during certain stage of the renewal process
 - (E) Answer not known
- 42. Which of the following is correct:
 - (1) Seats shall be reserved for schedule castes and schedule tribes in panchayat election.
 - (2) 1/2 of the position are reserved for women.
 - (3) Chairpersons of the panchayats at all levels in proportion to their population.
 - (A) (1) only correct
 - (B) (1) and (2) are correct
 - (C) (2) and (3) are correct
 - (D) (1) and (3) are correct
 - (E) Answer not known

- 43. Which of the following statement is correct?
 - (1) The powers and function of the panchayats are endowed by Panchayat council.
 - (2) It implements the scheme of the central and state government.
 - (3) Panchayat have the power to enhance employment facilities.
 - (A) (1) only correct
 - (B) (1) and (2) are correct
 - (C) (2) and (3) are correct
 - (D) (3) and (4) are correct
 - (E) Answer not known
- 44. Match the following 74th Amendment Act 1992:
 - (a) Article 243 W
- 1. State Election Commission
- (b) Article 243 V
- 2. Finance Commission
- (c) Article 243 Y
- 3. Disqualification of member
- (d) Article 243 ZA
- 4. Powers of Municipalities in Urban Planning
- (a) (b) (c) (d)
- (A) 1 2 3 4
- (B) 4 3 2 1
- (C) 3 2 1 4
- (D) 2 1 4 3
- (E) Answer not known

45.	The duri		Corporation Act was first published	∍d			
	(A)	1919	(B) 1819				
	(C)	1920	(D) 1820				
	(E)	Answer not known					
46.	Which of the following statement is correct as per the function of the Metropolitan Development Authority						
	(1)	To carry out a survey of the Chennai Metropolitan Area.					
	(2)	To carryout a survey for the whole state.					
	(3)	To prepare an existing land use map.					
	(A)	(1) only correct					
	(B)	(1) and (2) are correct					
	(C)	(2) and (3) are correct					
	(D)	(1) and (3) are correct					
	(E)	Answer not known					
47.			laws relating to municipalities an State of Tamil Nadu is called as	ıd			
	(A)	Panchayat Act	(B) Municipality Act				
	(C)	Corporation Act	(D) TNULB Act				
	(E)	Answer not known					

- 48. The following buildings and land shall not be exempted from the property tax
 - (A) Ancient Monuments Protected Under ASI Act
 - (B) Burial and Burning Grounds
 - (C) Charitable Hospitals and dispensaries
 - (D) Residential quarters for EWS
 - (E) Answer not known
- 49. The right to fair compensation and transparency in land acquisition, rehabilitation and Resettlement Act, 2013 was proposed, since land acquisition Act 1894 does not address the issues of
 - (A) Rehabilitation and resettlement of affected person
 - (B) Compensation criteria
 - (C) Does not define what is public purpose
 - (D) Does not have a legal standing
 - (E) Answer not known
- 50. According to 'the right to fair compensation and transparency in land acquisition rehabilitation and resettlement Act, 2013. Compensation has to be given with in ______ from the date of award and monetary rehabilitation and resettlement are to be provided within _____ period from the date of the award.
 - (A) 6 months and 1 year
 - (B) 4 months and 6 months
 - (C) 2 months and 4 months
 - (D) 3 months and 6 months
 - (E) Answer not known

51.	the	-	District Muncipalities Act, 1 , required the Executive Authorit which is in his custody.								
	(A)	Hazardous materials	(B) Non-Hazardous materia	als							
	(C)	Fire retardant	(D) Any								
	(E)	Answer not known									
52.	$73^{ m rd}$	$73^{ m rd}$ and $74^{ m th}$ Constitutional Amendment Acts come into force an									
	(A)	(A) 24 th April 1993 and 1 st June 1993									
	(B)	$23^{ m rd}$ April 1983 and $1^{ m st}$.	une 1983								
	(C)										
	(D)	· '									
	(E)	Answer not known									
53.	citiz incl	Article of the Indian Constitution imposes duty on every citizen of India to protect and improve the natural environment including forests, lakes, rivers and wildlife and to have compassion for the living creatures.									
	(A)	46A	(B) 47A								
	(C)	48A	(D) 49A								
	(E)	Answer not known									
54.	sche	The panchayats have been entrusted with the implementation of schemes for economic development and social justice and listed in the schedule.									
	(A)	eleventh	(B) twelfth								
	` /	tenth	(D) thirteenth								
	(E)	Answer not known									
	. ,										

- 55. Which of the following is correct as per constitution of India
 - (1) The objectives of the constitution: Justice, Liberty, Equality and Fraternity
 - (2) Justice in term of status and of opportunity
 - (3) Liberty in term of thought, expression brief, faith and worship
 - (A) (1) only correct

- (B) (2) and (3) are correct
- (C) (1) and (2) are correct
- (D) (1) and (3) are correct
- (E) Answer not known
- 56. Which of the following statements is correct with respect to evaluating the impacts of projects and programs.
 - (1) To identify the counterfactual it is necessary to clearly define control group
 - (2) To identify all variables which will impact on program outcomes
 - (3) All variables which will impact the program outcomes are directly measurable
 - (A) (1) is correct
 - (B) (1) and (2) are correct
 - (C) (2) and (3) are correct
 - (D) (1) and (3) are correct
 - (E) Answer not known

57.				_	alter	nati	ve evaluation methods to reciprocal
	(a)	_	uireme structe		rols	1.	Cross-section data on beneficiaries
	(b)		exive c			2.	Cross section data on representative
	(c)		istical			3.	Base line and follow up on beneficiaries
	(d)	Gene	eric coı	ntrols		4.	Large survey-census
		(a)	(b)	(c)	(d)		
	(A)		3	$\overline{2}$	1		
	(B)	3	2	1	4		
	(C)	1	4	3	2		
	(D)	2	3	1	4		
	(E)	Ansv	wer not	t know	'n		
	` ,						
58.	Mat	tch th	ie metł	nods of	'triar	ngula	ation from the following:
	(a)	Data	a trians	gulatio	n	1.	Use of multiple perspectives
	(b)		stigati ngulati			2.	Use of multiple method
	(c)	Metl	nod tri	angula	tion	3.	Use of several different evaluation
	(d)		ory tria	_			Use of a variety of data sources
		(a)	(b)	(c)	(d)		
	(A)		$\dot{2}$	1	$\stackrel{\cdot}{4}$		
			3		1		
		1		3	4		
		2		4	1		
			wer not	t know	'n		

	(a)	tch the following method Randomized control					Compared to themselves			
	(b)	Cons	structe	d cont	rol	2.	Judgement of experts			
	(c)	Shao	dow co	ntrol		3.	Equivalent group			
	(d)	Refle	exive c	ontrol		4.	Randomly placed in 2 groups			
		(a)	(b)	(c)	(d)					
	(A)	4	3	2	1					
	(B)	1	2	3	4					
	(C)	3	4	2	1					
	(D)		1	2	3					
	(E)	Ansv	wer no	t know	n					
60.	In r	rojec	t mana	gemer	nt sch	edula	e variance is the difference between			
00.	_	•								
	(A)						e Planned Value (PV)			
	(B)						ne earned point			
	(C)		nned V							
	(D)	D) Earned Value (EV) and actual cost								
	(E)	Ans	swer n	ot knov	wn					
	(D)	e term	ı slack	time r	efers ⁻	to				
61.	The						(B) An event			
61.	(A)		activit	У			(D) All evellt			
61.	(A)	An		•	activit	ty				
61.		An Bot	activit th even	it and a		ty	(D) Aschedule			

62.	In project management for data representation the strength of relationships among different factors, car objectives that exist between various factors. Depending many factors may be compared, project manager can use shapes to represent this diagram									
	(A)	Matrix diagram	(]	B) Flowcharts						
	(C)	Mind mapping	(D) Logical data model						
	(E)	Answer not known								
63.	Whi	Which of the following pair are correct								
	(1)	Financial Appraisal	_	Domestic Resource Cost						
	(2)	Environmental Appraisal	_	Government Policy						
	(3)	Economic Appraisal	_	Capacity Utilization						
	(4)	Managerial Appraisal	_	HR Management						
	(A)	(1) and (2) are correct								
	(B)	(2) and (4) are correct								
	(C)	(3) and (4) are correct								
	(D)	(1) and (4) are correct								
	(E)	Answer not known								

64.	-		_						brands of		
									payment of		
	4 la	kh rupe	ees. Both b	rands o	can be	useful	for a p	eriod	of 4 years.		
	Brar	Brand A is estimated to give the return of Rs. 50,000 for the first									
	year	year, Rs. 1,50,000 for second year, Rs. 2,00,000 for third year and									
	the fourth year. Brand B on the other hand is expected to give a return of Rs. 1,50,000 for all 4 years. What is the pay backperiod for										
			s. 1,50,000 i	tor all 4	years.	What	is the p	ay bac	ckperiod for		
	Brar	nd B?									
	(A)	2 year	s 8 months		(B) 2 y	rears				
	(C)	3 year	'S		(D) 2 y	rears 3 n	nonth	\mathbf{s}		

65. In case any tenderer asks for a clarification on the tender documents before _____ hours of the opening of tender, the tender Inviting Authority shall ensure that a replay is sent and copies of the reply to the clarification shall be communicated to all those who have purchased the tender documents

(A) 72

(B) 48

(C) 36

(D) 24

(E) Answer not known

(E) Answer not known

00.	Match the following appraisal with factors:								
	(a)) Market Appraisal					Capacity utilization		
	(b)) Technical Appraisal					Government policy		
	(c)	Env	ironme	ntal A	ppraisal	3.	Plant and equipments		
	(d)	Fina	ancial A	Apprais	sal	4.	Demand projection		
		(a)	(b)	(c)	(d)				
	(A)	4	3	2	1				
	(B)	1	2	3	4				
	(C)	2	3	4	1				
	(D)	3	2	1	4				
	(E)	Ans	wer not	t know	n				
67.		ich m ON MI	akes it	s NPV NE	equal to		of a project is the discount rate (B) ZERO (D) MINUS TWO		
68.	In project management the ratio of the earned value to the actua cost is								
	(A)	Cos	st Perfe	orman	ce Index (CPI)			
	(B)	Sch	nedule	Perfor	mance Ind	lex			
	(C)	Ea	rned Pe	erform	ance Inde	X			
	(D)	Pro	ofit Ma	trix					
	(E)		swer n		wn				

69.	Identify the three major dimension that defines the project performance, which is also referred as the 'Quality Triangle' of the project								
	(1) Scope								
	(2)	Cost							
	(3)	Time							
	(4)	Risk							
	(A)	(1), (2), (3)	(B) (2), (3), (4)						
	(C)	(3), (4), (1)	(D) $(1), (3), (4)$						
	(E)	Answer not known							
70.		The life cycle of a project from start to completion followshaped path							
	(A)	'S'	(B) 'U'						
	(C)	Inverted '∧'	(D) Straight Line						
	(E)	Answer not known							
71.		Identify the first earth observation satellite. Which was launched in April 1960 from the following?							
	(A)								
	(B)	ERTS – Earth Resor	arces Technology Satellite						
	(C)	LANDSAT							
	(D)	SPOT							
	(E)	Answer not known							

72.	thereby representing chang	ability to record sequence of images, es in landscape patterns over time and a sequence at relatively close intervals ——— resolution						
	(A) Temporal resolution							
	(B) Fine Temporal resolut	ion						
	(C) Coarse Temporal resol	ution						
	(D) Radiometric resolution	ı						
	(E) Answer not known							
73.	The Grid based GIS spatial data can be stored, manipulated, analysed and referenced via the following method							
	(i) GRID							
	(ii) IMGRID							
	(iii) MAP							
	(A) (i), (ii) and (iii)							
	(B) (ii) and (iii)							
	(C) (i) and (ii)							
	(D) (i) and (iii)							
	(E) Answer not known							
74.	In raster data representation of parcels called	on, the terrain is divided into a number						
	(A) Co-ordinates	(B) Grid cell						
	(C) Sub-division	(D) Layout						
	(E) Answer not known							

75.		atify the theme's generally used for urban land suitability lysis from the following									
	1.	Land use									
	2.	2. NDVi									
	3.	Water potential									
	4.	Tasseled cap ratio and subtraction									
	5.	Roads									
	6.	NiR									
	7.	Drainage									
	8.	GiR									
	9.	Slope									
	10.). FiR									
	(A)	2, 3, 4, 5, 6									
	(B)	2, 4, 6, 8, 10									
	(C)	1, 2, 3, 4, 5									
	(D)	1, 3, 5, 7, 9									
	(E)	Answer not known									
76.	CO-01	In vector data representation, anything that has a single co-ordinate (x, y) pair, not physically connected to any other coordinate pair is a entity									
	(A)	Discontinuous entity (B) Zero-dimensional									
	(C)	Isolated entity (D) Non Cartesian entity									
	(E)	Answer not known									

- 77. Match the following GIS data collection and sources.
 - (a) Satellite data IRS ID-PAN
 - (b) Toposheets and 1:50,000 scale
 - (c) Field data

- 1. Ground truth
- 2. Survey of India, GOI
- 3. National remote sensing agency, GOI

- (a) (b) (c)
- (A) 3 2 1
- (B) 2 1 3
- (C) 1 2 3
- (D) 3 1 2
- (E) Answer not known
- 78. Identify the primary attributes of landforms that can be estimated using DEM
 - 1. Elevation
 - 2. Point in polygon
 - 3. Slope
 - 4. Aspect
 - 5. Line in polygon
 - 6. Flow path length
 - 7. Polygon on polygon
 - (A) 2, 5, 7
 - (B) 1, 2, 6, 7
 - (C) 1, 3, 4, 6
 - (D) 2, 5, 6, 7
 - (E) Answer not known

- 79. Identify the incorrect statement with respect to vector data models in GIS platform from the following
 - (A) It provides a compact data structure than the raster model
 - (B) It provides efficient encoding of topology
 - (C) Better suited to supporting graphics that closely approximate land drawn maps
 - (D) It provides easy overlay operations
 - (E) Answer not known
- 80. In the field of remote sensing and GIS, LULC stands for.
 - (A) Land Use Legal Category
 - (B) Land Use Land Cover
 - (C) Land Use Local Category
 - (D) Legal Urban Land Cover
 - (E) Answer not known

- 81. Arrange the remote sensing events in order from the following
 - 1. Required information
 - 2. Sensor
 - 3. Data recorder
 - 4. Emitted energy/reflected energy
 - 5. Target
 - 6. EM energy source
 - (A) 5, 4, 6, 2, 3, 1
 - (B) 6, 5, 4, 2, 3, 1
 - (C) 5, 2, 6, 4, 3, 1
 - (D) 6, 5, 3, 4, 2, 1
 - (E) Answer not known
- 82. Why is non spatial data called as attribute data
 - (A) They give information about attributes like geometric orientation
 - (B) They give information about attributes like shape of a feature
 - (C) They give information about attributes like size and relative position of a feature
 - (D) They give information about attributes like population
 - (E) Answer not known

83. Match the following:

- (a) Thematic maps Relative magnitude of continuous variables within a boundary
- (b) Choropleth maps Location and magnitude of areas exhibiting relative uniformity
- (c) Proximal maps Spatial distribution of features by varying numbers and size
- (d) Dot maps Spatial variations of a single phenomenon
- (A) 1, 3, 2, 4
- (B) 2, 3, 1, 4
- (C) 2, 4, 1, 3
- (D) 4, 2, 1, 3
- (E) Answer not known

84. In GIS, 'TIN' stands for

- (A) Traffic Internet Network
- (B) Triangulated Irregular Network
- (C) Traffic Integrated Network
- (D) Temporal Interface Network
- (E) Answer not known

85. Name the output product using GIS platform

- (A) Aerial photographs
- (B) Aerial photogrammetry
- (C) Satellite imageries
- (D) Thematic maps
- (E) Answer not known

- 86. In GIS, the functions of Database Management Systems (DBMS) includes the following
 - (1) File handling and file management
 - (2) Adding, updating and deleting records
 - (3) Extraction of information from data
 - (4) Application building
 - (A) (1) is wrong
 - (B) (2) and (3) is wrong
 - (C) (1), (3),(4) is wrong
 - (D) (1),(2),(3),(4) is correct
 - (E) Answer not known
- 87. Identify the spatial data entity types from the following
 - 1. Point
 - 2. Line
 - 3. Areas
 - 4. Bar charts
 - 5. Pie charts
 - 6. Scatter plots
 - (A) 4, 5, 6
 - (B) 2, 4, 6
 - (C) 1, 3, 5
 - (D) 1, 2, 3
 - (E) Answer not known

- 88. Identify the relatively sophisticated image processing package to accomplish the integration of remotely sensed data into vector based GIS from the following
 - 1. ARC/INFO
 - 2. ERDAS
 - 3. ARC/GRID
 - 4. ER mapper
 - (A) (1) and (2) are correct
 - (B) (1) and (3) are correct
 - (C) (2) and (3) are correct
 - (D) (2) and (4) are correct
 - (E) Answer not known
- 89. Assertion [A]: Remote sensing data can be readily merged with

other sources of geo-coded information in a GIS.

Reason [R]: GIS helps to support the use and effective management of remote sensing data

- (A) [A] is true and [R] is true
- (B) [A] is false and [R] is true
- (C) [A] is true and [R] is false
- (D) [A] is false and [R] is false
- (E) Answer not known

90.	Mat follo	of remote sensing and GIS from the				
		_		vork	1. T	racking energy use
	(b)			source		nvironmental impact statements
	(c)		d parce			lood plain
	` '		-	nanage		ehicle routing
		(a)	(b)	(c)	(d)	
	(A)	` '	3			
	(B)	3	4	1	2	
	(C)	4	3	2	1	
	(D)	1	2	3	4	
	(E)	Ans	wer no	ot knov	vn	
	(A) (B) (C) (D) (E)	Na: Dar Du: Bhi	rmoda modar rgapur Ilai Reg	Valley River	Develor Valley P Valley I Develop	
92.	and whe	l visu en the sepa	alised e settl tration	the ag ement of do	e in phy is char mestic a	assified town on the basis of their age sical terms. He defined is acterised by mixed landuses without and commercial areas or without any nomic condition of the residents.
	(A)	infa	antile s	stage		(B) juvenile stage
	(C)	ma	turity	stage		(D) senility stage

- 93. The Regional Planning Association of America in 1923 was formed by the following people.
 - (a) Clarence stain
 - (b) Lewis Mumford
 - (c) Henry Wright
 - (d) Charles H. Whitaker
 - (e) Benton Mackaye
 - (A) (a), (b), (c), (d), (e)
- (B) (a), (b), (c), (d)

(C) (a), (b), (c)

- (D) (a), (b)
- (E) Answer not known
- 94. One great regional planning effort supported by President Roosevelt and congress is
 - (A) Tennerree Valley Authority (TVA)
 - (B) The control valley of California
 - (C) Los Angels country Regional Planning Commission
 - (D) The Red River Authority
 - (E) Answer not known
- 95. The programme introduced in the Sixth Five Year Plan having the aim to improve infrastructure in selected towns to make them act as regional center's for economic growth and arrest migration to bigger cities is
 - (A) Integrated development of small and medium towns
 - (B) Million plus cities
 - (C) JNNURM
 - (D) AMRUT
 - (E) Answer not known

96. In terms of settlement the sphere of influence of an area is the trading nexus is called its				ce of an area for which it							
	(A)	hinter land	(B) urb	oan field							
	(C)	sphere field	(D) Un	nland							
	(E)	Answer not known									
97.	Sequence of steps involved in process of regional planning										
	(1)	(1) Identifying the regionalism present.									
	(2)	Making a plan for the region.									
	(3)	Implementing the plan.									
	(4)	Demarketing the region.									
	(5)	Review of the plan.									
	(6)	Determine the needs of	the region.								
	(A)	(1), (4), (6), (2), (3), (5)	(B) (4),	(1), (6), (2), (5), (3)							
	(C)	(1), (4), (2), (3), (6), (5)	(D) (6),	(1), (2), (4), (3), (5)							
	(E)	Answer not known									
98.	A planning region should posses the following characteristics.										
	(a)	Large enough to enable substantial changes in distribution of population and employment									
	(b)	Small enough for its pl	anning problen	to be seen as a whole							
	(c)	Large enough to take is	nvestment deci	sions of an economic size							
	(d)	Contain atleast one growth point									
	(A)	(a), (b), (c), (d)	(B) (a),	(b), (c)							
	(C)	(a), (c), (d)	(D) (a),	(c),							
	(E)	Answer not known									
			37	519-Town Planning [Turn over							

99.	The idea of central place theory was first putforward by ————								
	(A)	Walter Christaller	(B) Carter						
	(C)	Edward and Arnold	(D) Dickinson						
	(E)	Answer not known							
100.		istaller believed that the hier nised according to	carchy of central places may be principles.						
	(A)	3	(B) 4						
	(C)	7	(D) 8						
	(E)	Answer not known							
101.	The Human Development Index (HDI) has been used for classifying countries and rank them in terms of education, life, expectancy, per capita income etc. The High human development has value								
	(A)	0.800 and above	(B) 0.500 and above						
	(C)	0.500 to 0.899	(D) 0.700						
	(E)	Answer not known							
102.	In Regional Planning explains the impact of a growing region (nucleus) and the rest of the economy with the h of two opposite kinds of forces which he calls the "spread effect" a "Back wash effect".								
	(A)	Myrdal	(B) Alfred Weber						
	(C)	Odum	(D) H.E. Moore						
	(E)	Answer not known							

103.	6000	rding to Ebenezer Howard, wacres should be purchased; and be left as Green belt, the tow	d of	this no less than
	(A)	4500 Acres	(B)	5000 Acres
	(C)	3500 Acres	(D)	4000 Acres
	(E)	Answer not known		
104.		tify the first Garden city built the following.	on t	he idea of Ebenezer Howard
	(A)	Letchworth		
	(B)	Welwyn		
	(C)	Wythenshawe		
	(D)	Hampstead Garden Suburb		
	(E)	Answer not known		
105.	URD	Maximum height of the build PFI guide lines ise e State of Meghalaya.	_	-
	(A)	10 meters	(B)	15 meters
	(C)	5 meters	(D)	20 meters
	(E)	Answer not known		
106.		rding to Lewis Mumford the cit for dwelling and it is called as	-	_
	(A)	Necropolis	(B)	Anthropopolis
	(C)	Ecumenopolis	(D)	Tyrannopolis
	(E)	Answer not known		

107.	According to URDPFI Guidelines, a compact city can have a high average density upto people per hectare, with large open spaces and inter-block margins.						
	(A)	800-1000	(B)	500-800			
	(C)	1000-1200	(D)	1200-2000			
	(E)	Answer not known					
108.		Patrick Geddes came to India i land gave his expert advice major towns in India.					
	(A)	Eighteen	(B)	Seventeen			
	(C)	Sixteen	(D)	Fifteen			
	(E)	Answer not known					
109.	According to smart cities mission, who will be the convener of the smart city Advisory forum.						
	(A)	District Collector	(B)	CEO of the SPV			
	(C)	Mayor	(D)	Local Area MLA			
	(E)	Answer not known					
110.	Under the smart cities mission, what is the equity shareholdin pattern required between State/UT and Urban Local Bodies (ULF in the Special Purpose Vehicle (SPV)?						
	(A)	60 : 40 in favour of State/UT					
	(B)	70:30 in favour of ULB					
	(C)	50 : 50 equal share holding					
	(D)	Variable based on project size					
	(E)	Answer not known					

111.		per Manasara of ancies	nt to	wn planning Forts are first divided
	(A)	8		(B) 10
	(C)	12		(D) 16 (D) 16
	(E)			(D) 10
	(E)	Answer not known		
112.		ring Buddhist period utilya or Chanakya wrot		e Emperor Chandragupta Maurya. famous
	(A)	Arthashastra		(B) Prastara
	(C)	Manyasa		(D) Taxila
	(E)	Answer not known		
113.	Mat	tch the following :		
	(1)	100 Roman Feet	(P)	2/3 of an acre
	(2)	1 Hectare	(Q)	208.7 ft. square
	(3)	1 Acre	(R)	2.47 acres
	(4)	1 Lugerum	(S)	97 English feet
	(A)	(1)- (S) , (2) - (R) , (3) - (Q) ,	(4)- $(I$?)
	(B)	(1)- (P) , (2) - (R) , (3) - (S) ,	(4)-(6	Q)
	(C)	(1)- (Q) , (2) - (R) , (3) - (S) ,	(4)-(I	P)
	(D)	(1)- (R) , (2) - (S) , (3) - (P) ,	(4)-(6	Q)
	(E)	Answer not known		
114.	esta		ernm	t improvement trust in India was ent in 1898, in the aftermath of the wo year's earlier.
	(A)	Surat		(B) Bombay
	(C)	Madras		(D) Calcutta
	(E)	Answer not known		

- 115. The first Comprehensive Act requiring the preparation of the development plan and authorizing its enforcement in India is
 - (A) Madras Town Planning Act
 - (B) Bombay Town and Country Planning Act
 - (C) Delhi Town and Country Planning Act
 - (D) Hyderabad Town and Country Planning Act
 - (E) Answer not known
- 116. Identify the role of system analysis in smart urban solutions.
 - (1) Value capture finance
 - (2) Cost benefit analysis
 - (3) Evaluating Environmental impacts
 - (4) Enhancing Resource efficiency
 - (5) Stakeholder engagement and Decision support
 - (6) Development strategies
 - (A) (1), (2), (3)

(B) (3), (2), (1)

(C) (3), (4), (5)

- (D) (2), (4), (5)
- (E) Answer not known
- 117. Identify a multilateral funding organisation from the following, which provides the Loans/Grants-in-aid for projects in various countries.
 - (A) UG Agency for International Development
 - (B) Japan Bank for International Cooperation
 - (C) Australian Aid Agency
 - (D) World Bank
 - (E) Answer not known

118.	The k	ourning of refuse in a controlled	d ma	nner is called
	(A)	Composting	(B)	Incineration
	(C)	Land filling	(D)	Pulverizing
	(E)	Answer not known		
119.		ch of the following factors NOT e for a Reservoir?	to B	E considered while selecting
	(A)	The geological conditions of the that perolation losses and max		
	(B)	Quantity of leakage is minimu	ım	
	(C)	Site should be founded on a so	und	water tight rock base
	(D)	Reservoir basin should have n	arro	w opening in the valley
	(E)	Answer not known		
120.	India	minimum Domestic water con an Towns and cities with 172-1993 is		_
	(A)	100 l/h/d	(B)	200 l/h/d
	(C)	225 l/h/d	(D)	70 l/h/d
	(E)	Answer not known		
121.		method in which solid waste i covered with earth is called as	s du	mped in low lying area and
	(A)	Incineration	(B)	Sanitary land filling
	(C)	Pyrolysis	(D)	Recycling
	(E)	Answer not known		

122. For estimating the quantity of water require town depends on the following factor's			required in the future for a	
	(a)	Rate of Demand		
	(b)	Population		
	(c)	Air Pollution		
	(A)	(a) and (b)	(B)	(b) and (c)
	(C)	(a)		(a), (b) and (c)
	(E)	Answer not known		
123.	The lis cal	length of the main sewer leadi	ing t	o treatment or disposal unit
	(A)	Lateral	(B)	Branch sewer
	(C)	Trunk sewer	(D)	Outfall sewer
	(E)	Answer not known		
124.		r secondary or Tertiary treatm sparkling liquid is known as	ient,	the waste water which is a
	(A)	Sludge	(B)	Sullage
	, ,	Effluent	(D)	Sewage
	(E)	Answer not known	` ,	
125.	A Ne	etworks of interconnected sewe	rs in	n an area, district on town is
	(A)	Sewage	(B)	Sewerage
	(C)	Septage	(D)	Septic tank
	(E)	Answer not known		

196	T.,	entan aumalu project the distrik	nution avatam has to be designed				
120.	In water supply project, the distribution system has to be designed to cater.						
	(A)	(A) Present population					
	(B)	Future population at the end	of 5 years				
	(C)	Future population at the end	•				
	(D)	Future population at the end	of 150 years				
	(E)	Answer not known					
127.	the		ing remote sensing and GIS tools undary on using toposheets are				
	(A)	1:10000	(B) 1:20000				
	(C)	1:2000	(D) 1:30000				
	(E)	Answer not known					
128.	-	er URDPFI guidelines, the rece ted sewage quality for reuse as	ommended upper limit of BOD of toilet flushing should be				
	(A)	0	(B) 10				
	(C)	30	(D) 100				
	(E)	Answer not known					
129.	The	concept of FSI is used to contro	l the				
	(A)	Density of population in residen	ential areas				
	(B)	Height of buildings					
	(C)	Unplanned growth of town					
	(D)	Land values of a town					
	(E)	Answer not known					

130.		Identify the factors which affect the efficiency of any street lighting system from the following						
	(a)	Siting of posts						
	(b)	Overhang						
	(c)	Spacing of lamps						
	(d)	Mounting height						
	(A)	(a), (b) and (c) only	(B) (b), (c) and (d) only					
	(C)	(a), (b), (c) and (d)	(D) (a) and (b) only					
	(E)	Answer not known						
131.	In urban research methods — proceeds from some a priori premise to statements about particular events or set of events.							
	(A)	Deductive theory	(B) Inductive theory					
	(C)	Data theory	(D) Sequential theory					
	(E)	Answer not known						
132.	In ur	rban systems modelling which i	nodel has the following features:					
	(i)	It relates population and emzone.	ployment at one particular time					
	(ii) It assumes an economic base mechanism where emplo divided into basic and non-basic sectors.							
	(A)	Lowry model	(B) Empiric model					
	(C)	Delphi technique	(D) Accessibility model					
	(E)	Answer not known						

133.	atter	orban planning methods in a situation where the researcher mpts to make inferences from knowledge about group behaviour nat of an individual is referred to as						
	(A)	Ecological fallacy	(B)	Ecological fantasy				
	(C)	Ecological fallassy	(D)	Eco fallassy				
	(E)	Answer not known						
134.	as a	In planning research theory and design ————————————————————————————————————						
	(A)	A datum	(B)	A data				
	(C)	A phenomenon	(D)	Database				
	(E)	Answer not known						
135.	Resid	dential density is normally exp	resse	ed as				
	(i)	Accommodation density						
	(ii)	Population density						
	(iii)	Houses per unit land (dwelling units/hectare)						
	(iv)	FSI						
	(A)	(i), (ii), (iii)	(B)	(iv)				
	(C)	(ii) and (iv)	(D)	(i), (ii), (iv)				
	(E)	Answer not known						

136.	Iden data	tify important sources of publ	ishe	d sources used as secondary
	(i)	Reports submitted by econom	ists,	research scholars, bureaus.
	(ii)	Statistical abstracts, census governments.	,	,
	(iii)	Records maintained by private which are not disclosed.	te fir	rms and business enterprises
	(iv)	Journals, magazines and peri-	odica	als.
	(A)	(i), (ii), (iv)	(B)	(i), (ii), (iii), (iv)
	(C)	(iii) and (iv)	(D)	(i), (iii), (iv)
	(E)	Answer not known		
137.	The j (A) (B) (C) (D) (E)	planning approach that focuses Normative planning Functional planning Blue print mode of planning Incrementalism mode of plans Answer not known		
138.	"map	and suitability analysis ——o overlay method", which meesent the suitability levels in the map in a certain order.	akes	use of gradual colours to
	(A)	Grey tone	(B)	Sieve tone
	(C)	Sieve mapping	(D)	Gradient
	(E)	Answer not known		

139.		_	ning is a sequential multi-staged process in which many phases inked to their predecessors by:				
	(A)	Rev	ersible	eloops		(B) Systemic loops	
	(C)	Bac	kward	loops		(D) Feedback loops	
	(E)	Ans	swer no	ot know	vn	· /	
140.						nent/a statement of preference of criteria red to as:	
	(A)	Fac	t			(B) Postulate	
	(C)	Val	ve			(D) Theory	
	(E)	Ans	swer no	ot know	/n		
141.	Mat	ch th	e follov	wing			
	(a)	Eopo	olis		1.	Organically grown neighborhood	
	(b)	Moh	allas		2.	Housing clusters of particular caste/occupation and religion	
	(c)	Pols	and ka	itras	3.	Extensive deterioration of socio- economic structure, urban governance, services etc	
	(d)	Tyra	nnopol	is	4.	Village showing signs of transformation from rural to urban	
		(a)	(b)	(c)	(d)		
	(A)	4	1	2	3		
	(B)	1	2	3	4		
	(C)	3	4	1	2		
	(D)	2	1	3	4		
	(E)	Ans	swer no	ot know	n		

142.	. The cul-de-sac plan for radburn was developed by:					
	(A)	Stein and Wright	(B)	Perry and Stein		
	(C)	Lowry and Garin	(D)	Lynch and Rodwin		
	(E)	Answer not known				
143.		rding to cencus of India 2011, sollowing criteria	urba	an settlements should satisfy		
	(1)	Minimum population of 5,000				
(2) Atleast 75% of male main working population engage agricultural pursuits						
	(3) A density of population of atleast 200 persons/sq Km(4) Minimum population of 10,000					
	(A)	(1) and (2) are correct	(B)	(3) and (4) are correct		
	(C)	(1) and (4) are correct	(D)	(2) and (3) are correct		
	(E)	Answer not known				
144.	Phila	delphia grid was planned by:				
	(A)	Inigo Jones	(B)	William Penn		
	(C)	Christopher Wren	(D)	Thomas Adams		
	(E)	Answer not known				

popu	lation projections by age and	is wisely used when sex are needed for 5 years, 10			
size		lows planners to project the total			
(A)	Cohort component method				
(B)	Matrix Model				
(C)	Ratio Model				
(D)	Ratio component Method				
(E)	Answer not known				
6. As per URDPFI guidelines under several mechanisms and avenue for people's participation ————————————————————————————————————					
(A)	Community Design charrettes				
(B)	Focus group				
(C)	Discussion Feedback				
(D)	Congregation activities				
(E)	Answer not known				
princ	cipal of high intensity with ver	tical Integration. It is also under			
(A)	Layering Development	(B) Layered Development			
(C)	High - Rise Development	(D) Mixed use high rise			
(E)	Answer not known				
	size (A) (B) (C) (D) (E) As properties (A) (B) (C) (D) (E) As properties (A) (C) (C) (C)	(A) Cohort component method (B) Matrix Model (C) Ratio Model (D) Ratio component Method (E) Answer not known As per URDPFI guidelines under service for people's participation————————————————————————————————————			

148.	withi muni	er URDPFI guidelines ————————————————————————————————————	but	t outside the limit of the
	(A)	Peri - Urban	(B)	Semi – Urban rural
	(C)	Hinter land	(D)	Threshold area
	(E)	Answer not known		
149.		er URDPFI guidelines under reculated using the formula.	eside	ential density occupancy rate
	(A)	Population density Accomodation density		
	(B)	Accomodation density Population density		
	(C)	Population density Total area of study area		
	(D)	No of habitable rooms Total area of Net study		
	(E)	Answer not known		
150.	_	er CRZ (Coastal Regulation Zo Tide Line (LTL) is termed as	ne) l	Land area between HTL and
	(A)	Intertidal zone	(B)	Intermediate zone
	(C)	Intratidal zone	(D)	Interhazard zone
	(E)	Answer not known		

151. Assertion [A]: GIS has led to the development of planning

decision support systems.

Reason [R] : GIS enables analysis to be made based on many

layer of interaction

- (A) Both [A] is [R] is true
- (B) [A] is true [R] is false
- (C) [A] is false [R] is true
- (D) [A] and [R] are false
- (E) Answer not known

152. Which of the following are correct

- (1) CRZ I Ecologically sensitive
- (2) CRZ II Rural area
- (3) CRZ III Develop area
- (A) (1) only correct
- (B) (2) and (3) are correct
- (C) (1) only (3) are correct
- (D) (1) and (2) are correct
- (E) Answer not known

153.	Mat Inci			follov	wing	valu	e o	captur	e	method	with	frequency	
	(a) Land value tax						1. One time at time of charge						
	(b)	De	velop	ment	char	ges	2.	Recu	rri	ng			
	(c)	Va	cant	Land	tax		3.	Onet	im	e			
	(d)	Fee	es for	char	ging		4.	Annu	ıal	rate bas	e		
		Laı	nd U	se									
		(a)	(k	o) ((c)	(d)							
	(A)	3	4	1	1	2							
	(B)	2	é	3	4	1							
	(C)	1	4	2	3	4							
	(D)	4	ć	3	2	1							
	(E)	Ar	iswei	r not l	know	n							
154.	Whi	ich (of the	e follo	wing	are B	Bioti	ic Reso	oui	ces			
	(1)	Li	iving	thing	;s								
	(2)	T_1	rees										
	(3)	La	and f	orm									
	(4)	A	ir										
	(A)	(1) and	l (2) o	nly co	orrect		(B)	(2) and	(3) onl	y correct	
	(C)	(3) and	l (4) o	nly co	orrect	;	(D)	(1) and	(4) onl	y correct	

of

(E) Answer not known

155.	5. What does CRZ – I typically includes in the costal zone management classification?										
	(A)	Bea	Beach front development								
(B) Ports and Shipyards											
	(C)			ls sensi		ırea	.s				
	(D)		stal vill								
	(E)			ot knov	vn						
156.		_	_	ideline e area i			er Zone of ———————————————————————————————————				
	(A)	5 0 :	m				(B) 150 m				
	(C)	100	m				(D) 200 m				
	(E)	Ans	swer no	ot knov	vn						
157.	Mat	tch th	e follo	wing							
	(a)		– IA	0		1.	Ecologically sensitive Areas				
	(b)	CRZ	– IB			2.					
	(c)	CRZ	– II			3.	Developed land Areas				
	(d)	CRZ	- IV A	Δ.		4.	The water area and the sea bed between the Low Tide line upto 12 nautical miles on seaward side				
		(a)	(b)	(c)	(d)						
	(A)	1	$\stackrel{\circ}{2}$	3	$\stackrel{\cdot}{4}$						
	(B)	4	1	2	3						
	(C)	2	1	4	3						
	(D)	2	3	4	1						
	(E)	Ans	wer no	t know	/n						

158.	Which	of the	following	statement	is	true
------	-------	--------	-----------	-----------	----	------

- (1) Land cover is defined as physical material at the surface of the earth
- (2) Land cover includes forest and baseground
- (3) Land cover involves the management and modification of natural environment
- (A) (1) only correct
- (B) (1) and (2) are correct
- (C) (2) and (3) are correct
- (D) (1) and (3) are correct
- (E) Answer not known

159. Match the value capture method with frequency to Incidence

- (a) Transfer of Development rights
- (b) Additional FSI
- (c) Tax increment financing
- (d) Land Pooling system
- 1. One time upfront before project initiation
- 2. Recurring for a fixed period
- 3. One time
- 4. Transaction based
- (a) (b) (c) (d)
- (A) 3 4 1 2
- (B) 2 3 4 1
- (C) 4 3 2 1
- (D) 1 2 3 4
- (E) Answer not known

160.		– is a	strategy	that	aims	at mal	king	an	otherw	rise
	deteriorated	system	of Urba	n gove	ernan	ce/mana	agem	ent	better	by
	introducing	change	s necess	sary t	to in	nprove	its	per	forman	ice,
	accountabilit	y and ef	fectivenes	3S.						

(A) Reform

(B) Rehabilitation

(C) Restoration

- (D) Re-development
- (E) Answer not known

161. Transfer of Development Rights (TDR) allows a landowner to

- (A) Transfer unused development rights from one land parcel to another
- (B) Transfer property tax
- (C) Transfer development right on agricultural land
- (D) Transfer land directly to foreign buyers
- (E) Answer not known

162. Sustainable Development Goals 6 aims to

- (A) Increase water use efficiency
- (B) Adders pollution
- (C) Construct sewage treatment plants
- (D) Construction and maintenance of electrical distribution network
- (E) Answer not known

163. Expand

AMRUT -

- (A) ATAL Mission for Rehabitation and Urban Transport
- (B) ATAL Mission for Rejuvenation and Urban Transformation
- (C) ATAL Mission for Rehabitation and Urban Transformation
- (D) ATAL Mission for Rejuvenation and Urban Transport
- (E) Answer not known

164. AMRUT 2.0 is a step towards Aatma Nirbhar Bharath with aim of

- (A) Making the cities water screen
- (B) Making the cities clean
- (C) Making the cities traffic free
- (D) Making the cities eco friendly
- (E) Answer not known

165. Pradhan Mantri Awas Yojana aims to provide

- (A) Affordable housing the poor families in Rural Area
- (B) Affordable housing for all in Urban areas
- (C) Affordable housing to the urban poor
- (D) Provision of Affordable Housing to all
- (E) Answer not known

166. When was the Swachh Bharat Mission Launched?

(A) 15 August 2014

(B) 2 October 2014

(C) 26 January 2015

- (D) 15 August 2015
- (E) Answer not known

167. Assertion [A]: Transit Oriented Development (TOD) is a new

concept focusing on efficient mode of

transportation other than automobile.

Reason [R] : TOD necessitate the creation of compact,

walkable, mixed - use communities.

- (A) Both [A] and [R] are true
- (B) [A] is true [R] is false
- (C) [A] is false [R] is true
- (D) Both [A] and [R] are false
- (E) Answer not known

168. The 3R concept are

- (A) Reduce, Recycle and Reuse
- (B) Reuse, Repair, Recycle
- (C) Reuse, Reduce, Regain
- (D) Repair, Regain, Recycle
- (E) Answer not known

169. Assertion [A]: The Ecological foot print measures the rate of

human consumption and waste generation.

Reason [R] : In comparison to how fast nature can absorb

human wastes and generates new resources

- (A) [A] and [R] are true
- (B) [A] is true [R] is false
- (C) [A] is false [R] is true
- (D) Both [A] and [R] are false
- (E) Answer not known

170. Identify the Abiotic resource from the following:

- (1) Water
- (2) Plants
- (3) Temperature
- (4) Bacteria
- (A) (i) and (ii) only correct
- (B) (i) and (iii) only correct
- (C) (ii) and (iii) only correct
- (D) (iii) and (iv) only correct
- (E) Answer not known

171. Name, Sustainable development Goal 11

- (A) Innovation and Infrastructure
- (B) Reduced In equalities
- (C) Sustainable cities and communities
- (D) Climate Action
- (E) Answer not known

- 172. Consider the following statements and choose the correct options with respect to sustainable urban development
 - (1) Able to feed itself with a sustainable reliance within its surrounding hinter land
 - (2) Able to generate enough energy
 - (3) Able to generate higher ecological foot print
 - (4) Produce the lowest amount of environmental pollution, to efficiently were land
 - (5) Compost used materials, recycle it or convert waste to energy
 - (A) (1), (2), (3) and (4)
 - (B) (2), (3), (4) and (5)
 - (C) (1), (3), (4) and (5)
 - (D) (1), (2), (4) and (5)
 - (E) Answer not known
- 173. One of the following is not a feature and part of benefits of sustainable transportation system
 - (A) Reducing the transportation demand reduces the use of scarce resource
 - (B) Reducing traffic congestion
 - (C) Reducing an pollution
 - (D) Reducing public transportation
 - (E) Answer not known

174.	Activ	ve transport is often referred a	\mathbf{s}	
	(A)	Motorised transport		
	(B)	Non-motorised transport		
	(C)	Public transport		
	(D)	Private transport		
	(E)	Answer not known		
175.	_	er municipal solid waste mana llection of waste from	ıgem	ent, primary collection refers
	(A)	Community bins	(B)	Waste storage depot
	(C)	Households	(D)	Transfer stations
	(E)	Answer not known		
176.		ch statistical model is commo d on travel time, cost and othe		
	(A)	Regression model	(B)	Logit model
	(C)	Gravity model	(D)	Matrix model
	(E)	Answer not known		
177.	pron	per National Transit Oriented notes densification in the info		_ , , _ , _ , _ , _ , , _ , , , , , , ,
	To e	ensure sustainable developmen and can be higher, depe		
	(A)	300 - 500%	(B)	100 - 150%
	(C)	100 - 250%	(D)	300%
	(E)	Answer not known		

178.	A woman starts from her residence and uses the following mode in
	sequence to reach her office. Cycle rickshaw to railway station, then
	train to destination station, followed by auto rickshaw her office.
	Which of the following describes her sequence of transit usage?

- (A) Non-Motorised transit Para transit Mass Transit
- (B) Para-Transit Public Transit Non Motorised Transit
- (C) Private Transit Public Transit Non Motorised Transit
- (D) Non Motorised Transit Mass Transit Para Transit
- (E) Answer not known

179. It has been found that the cost of travel between two places is Rs. 100 and Rs. 50 by car and bus respectively. The time taken for travel by car is 25 min and by bus is 50 min. The value of time of the traveller is Rs. 30/hr. Find the probability of a traveller choosing a car.

(A)	34%	(B) 66%
(C)	44%	(D) 56%

(E) Answer not known

180. As per IRC – 103 guidelines for pedestrian facilities, tactile pavers should be laid _____ away from the edge of foot path kerb edge, compound wall and any other obstructions to avoid collision.

- (A) 600 mm (B) 600 cm (C) 700 mm (D) 70 cm
- (E) Answer not known

181.		In transport survey the type of survey that provides wide range of data for monitoring and impact evaluation								
	(A)	Household survey								
	(B)	During the trip survey								
	(C)	At the destination end of the t	rip							
	(D)	Start trip survey								
	(E)	Answer not known								
182.		dia, for multi lane pavements, gle lane	the	minimum width provided for						
	(A)	3.5 m	(B)	3.6 m						
	(C)	3.4 m	(D)	3.3 m						
	(E)	Answer not known								
183.		mmended values of camber for some congress is	or E	arthen roads as per Indian						
	(A)	1 in 50 to 1 in 60	(B)	1 in 40 to 1 in 50						
	(C)	1 in 33 to 1 in 40	(D)	1 in 25 to 1 in 33						
	(E)	Answer not known								
184.		e way turning roadway that nmodate a right-turning mover								
	(A)	Interchange	(B)	Ramp						
	(C)	Loop	(D)	Intersection						
	(E)	Answer not known								

185.	_	As per current Indian practice, the road way width of national and state highways with two lanes in plain terrain is							
	(A)	14 m	(B) 12 m						
	(C)	10 m	(D)	8 m					
	(E)	Answer not known							
186.	The 1	right stopping distance is also e	xpre	essed as					
	(A)	Lag distance							
	(B)) Braking distance							
	(C)	Lag distance + braking distance							
	(D)	(Lag distance) 2							
	(E)	Answer not known							
187.		minimum space standards fone divided) is	or u	rban roads in express way					
	(A)	60 m	(B)	50 m					
	(C)	40 m	(D)	75 m					
	(E)	,							
188.		total number of vehicles par ent is called	ked	in an area at a specified					
	(A)	Parking Standard	(B)	Parking Index					
	(C)	Parking Accumulation	(D)	Parking Key					
	(E)	Answer not known							

189.	89. The term 'PCU' in vertical volume count denotes								
	(A)	Passenger Car Unit	(B)	Pa	assenger Car Union				
	(C)	Portable Car Unit	(D)	Po	ost Car Unit				
	(E)	Answer not known							
190.	our c	tify the apex body of road sect country. Which sets guidelines oridge construction?		_	-				
	(A)	Tamil Nadu Road Development Corporation (TNRDC)							
	(B)) Indian Roads Congress (IRC)							
	(C)	Regional Transport Office (RTO)							
	(D)	Planning Commission							
	(E)	Answer not known							
191.	In Ro	otary design intersection, weav	ing 1	nea	an				
	(A)	Dividing of a single stream of	traff	ic i	nto separate streams				
	(B)	Converging of separate streams of traffic into single stream							
	(C)	The combined movement of merging and diverging of traffic streams moving in the same general direction							
	(D)	Converging of dividing the mu	ltipl	e s	tream				
	(E)	Answer not known							
192.	Iden	tify the type of curb can be easi	ly cr	oss	sed by vehicle, if required				
	(A)	Barrier	(B)	M	ountable				
	(C)	Both barrier and mountable	(D)	Κe	erb				
	(E)	Answer not known							

193. Maximum number of vehicles, passengers on the like, whi accommodated by a given facility or system under given con a given level of service is called									
	(A)	Service volume	(B)	Volume	count				
	(C)	Design volume	(D)	Packing	g count				
	(E)	Answer not known							
194.	Vario	ous factor's which control the a	lligr	nment of	a road in pla	ain area			
	1.	Gradient							
	2.	Curves							
	3.	Sight distance							
	4.	Obligatory points							
	(A)	1, 2, 3, 4	(B)	1, 2, 3					
	(C)	1, 3, 4	(D)	2, 3, 4					
	(E)	Answer not known							
195.		nge the road hierarchy of tran er Institute of Highway Technol	_			ronment			
	(A)	Primary distributor, Acce Pedestrian route	ss	road,	Pedestrian	street,			
	(B)	Access road, Primary de Pedestrian route	istri	butor,	Pedestrian	street,			
	(C)	Primary distributor, Pede Pedestrian route	stria	an stre	eet, Access	road,			
	(D)	Primary distributor, Access ro	ad,	Pedestri	an route, Ped	lestrian			

street

Answer not known

(E)

196.	The portion of the roadway which lies between the outer edge of the carriageway and the inner edge of the ditch, gutter or slope is known as						
	(A)	Camber	(B)	Shoulder			
	(C)	Cross-Fall	(D)	Barrier			
	(E)	Answer not known					
197.	A rotary intersection is a specialized form ofintersection laid out for movement of traffic in one direction around a control island.						
	(A)	At grade	(B)	Grade			
	(C)	T junction	(D)	Y junction			
	(E)	Answer not known					
198.	As per URDPFI guidelines for bus stop proximity – locate the project within walking distance (measured from a main building entrance) of 1 or more stops for 2 or more public, campus or private bus lines usable by building components.						
	(A)	1/4 mile	(B)	1/2 mile			
	(C)	1 mile	(D)	3/4 mile			
	(E)	Answer not known					
199.	In transportation, the perception - reaction time depends greatly on the effectiveness of drivers vision perceiving the objects. The most fairly clear vision is within						
	(A)	10 to 12 degrees	(B)	3 to 5 degrees			
	(C)	15 to 30 degrees	(D)	120 to 180 degrees			
	(E)	Answer not known					

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200.	The map which is represented by thick lines along the route helps find traffic volume distribution at a glance is referred as				
	(A)	Traffic trend map	(B)	Traffic variation map	
	(C)	Traffic flow map	(D)	Volume flow map	

(E) Answer not known