SEAL

Register Number

2018 TOWN PLANNING (P.G. Degree Standard)

Time Allowed: 3 Hours]

[Maximum Marks: 300

ATP/18

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

- 1. The applicant will be supplied with Question Booklet 15 minutes before commencement of the examination.
- 2. This Question Booklet contains 200 questions. Prior to attempting to answer, the candidates are requested to check whether all the questions are there in series and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed, it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination, it will not be replaced.
- Answer all questions. All questions carry equal marks.
- 4. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
- 5. An answer sheet will be supplied to you, separately by the Room Invigilator to mark the answers.
- 6. You will also encode your Question Booklet Number with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per Commission's notification.
- 7. Each question comprises four responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
- 8. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows:
 - $A \bullet C D$
- 9. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the time of examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
- 10. Do not make any marking in the question booklet except in the sheet before the last page of the question booklet, which can be used for rough work. This should be strictly adhered.
- 11. Applicants have to write and shade the total number of answer fields left blank on the boxes provided at side 2 of OMR Answer Sheet. An extra time of 5 minutes will be given to specify the number of answer fields left blank.
- 12. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.

SPACE FOR ROUGH WORK

EXGRESSES.

1.		planning approach based on incomical framework is called	rporation		5 WIGHIA
	(A)	Blue print planning	0	Process planning	
	(C)	Normative planning	(D)	Advocacy planning	
2.	Blue	print planning acts through the me	dium of		
	(A)	Structure plan	(3)	Master plan	
	(C)	Area development plan	(D)	Detailed development plan	
3.	Delp	hi Technique involves			
	(A)	Individual expert opinion	9	Expert group opinion	
	(C)	Private organisation opinion	(D)	Public opinion	
4.	PPB	S (Planning - Programming - Budg	eting Sys	tem) is a model for executing	
(At	(A)	National policy	(B)	State policy	
	9	Public policy	(D)	Regional policy	
5.	In re	emote sensing, SMA denotes			
	(A)	Sensor Mixture Analysis	(B)	Stratified Mixture Analysis	
	(C)	Spatial Mixture Analysis	9	Spectral Mixture Analysis	
6.	Mul	tiple regression, statistical technique	ue is used	in population analysis for	
	(A)	Forecasting birth rates		Migration studies	
	(C)	Predicting changes	(D)	Transportation studies	
7.	The	concept of "Disjointed Incremental	ism" was	discussed in planning by	
	(A)	Catanese	(6)	Lindbolm	
	(C)	Faludi	(D)	Ratcliffe	
8.	The	e relationship between planning pra	ctice info	rmed by theory is called	
	(A)	Systemics	9	Praxis	
	(C)	Pragmatics	(D)	Cybernetics	
C			3		ATP/1

	(A)	Shift/share analysis	1	Econometric methods
	(C)	Ratio method	(D)	Multiplier method
10.		model simulating flow of elemen and and supply is called	ts; through	h central location in response to laws of
	(A)	Demand model	(B)	Queuing model
	9	Inventory model	(D)	Normative model
11.	The a	application of the linear city concep	ot to the re	development of London in 1937 was by
	(A)	Soria Y mata	(B)	Le Corbusier
	9	MARS group	(D)	Frank Llyod Wright
12.	A val	ue system that ascribes a relative	value to ea	ach one of the events is called
	(A)	Choice theory	0	Utility theory
	(C)	Decision theory	(D)	Fiscal theory
13.		method of economic analysis to o	compare lo	ong run economic effects of a number of
	(A)	Cost effectiveness analysis		
	0	Cost-benefit analysis		
	(C)	Fiscal impact analysis		
	(D)	PPBS (Planning Programming B	udgeting S	ystem) -
14.	Cost	honofit and cost offertive		
F. Z.	COSC	benefit and cost-effectiveness anal PPBS system (Planning-Program		
	(B)	Fiscal impact analysis system	ming budg	geting System)
	(C)	Simulation system		
	(D)	Resource allocation system		
4 500				
ATF	718		4	c

9. In economic analysis; the technique for projecting the future of exporting activity uses

15.	Von T	'hunen's Land use Location theory/mo	odel wa	s mainly based on
	(A)	Urban use	0	Agricultural use
	(C)	Commercial use	(D)	Industrial use
16.	The p	lanned community of Radburn was d	esigned	l by
	(A)	Clarence Perry and Clarence Stein	0	Henry Wright and Clarence Stein
	(C)	Patrick Geddes	(D)	F. J. Osborn
17.	Hippo	odamian plan referred to		
	M	Grid Iron pattern	(B)	Radial pattern
	(C)	Radio-centric pattern	(D)	Linear pattern
18.	The c	concept of Town Planning in Manasar	a and N	Mayamata was called
	(A)	Bhupariksha	(B)	Padavinyasa
	10	Nagaravinyasa	(D)	Bhumisamgraha
19.	PPBS	S (Planning-Programming Budgeting	System	n) includes programs designed around
	(A)	Short term goals	(B)	Medium range goals
	(C)	Intermediary goals	9	Long range goals
20.		ematic analysis of the Environmental proposed strategic actions is known a		of development policies, plans, programmes
	(A)	EIA	(B)	EMP
	500	SEA	(D)	EIS
			35	
21.	Unde	er which Act EIA is made mandatory		
	(A)	Indian Forest Act		
	(B)	Air (Prevention and Control of Poll	ution) A	Act
	(C)	Wildlife Protection Act		
	9	Environment (Protection) Act		
-			5	ATP/18

22.	The process of calculating projected effects that a proposed action or construction project will have on environmental quality is called as					
	SIS	Environmental Assessment	(B)	Ecology Assessment		
	(C)	Environmental Report	(D)	Environmental Survey		
23.	Whic	ch one is not the benefit of environmen	tal ass	essment?		
	(A)	Reduced cost and time of project imp	lemen	tation		
	(B)	Cost-saving modifications in project	design			
	(C)	Increase project acceptance				
	9	Increase cost of treatment and clean	up			
24.	The	Indian ministry requires ———— f	for givi	ng environmental clearance.		
	(A)	Project assessment report	(B)	Ecology assessment statement		
	50	Environmental impact assessment	(D)	Environmental clearance statement		
25.	The	distinct dimensions of environmental r	resourc	ces are		
	(i)	ecological				
	(ii)	economic				
	(iii)	ethnological				
	(A)	(i)	9	(i), (ii) and (iii)		
	(C)	(ii)	(D)	(iii)		
26.	2010	World Environment Day themes are				
	(A)	Green cities - plan for the planet!				
	0	Many species. One planet. One fixtu	ire			
	(C)	Your Planet Needs You - Unite to co	ombat	climate change		
	(D)	Melting Ice – a Hot Topic?				
27.	Worl	ld Environment Day, commemorated e	ach ye	ar on		
	(A)	June 2 nd	(B)	June 3 rd		
	(C)	June 4 th	9	June 5 th		
ATP	7/18		6	c		

0.	D1010	gicai wagiiiicadon is		
	(A)	Decrease in concentration with trophic	level	
	08)	Increase in concentration with trophic	level	
	(C)	Equilibrium in concentration		
	(D)	Magnification with time		
29.	'Regi	onal Survey' Technique is the concept by	7	
	(A)	Doxiadis	DI	Patrick Geedes
	(C)	Lewis Mamford	(D)	Ebenazer Howard
30.	Fund	ctional Regions are classified based on it	S	
	W	Basic Economic Activity		
	(B)	Services offered		
	(C)	Major industrial activities		
	(D)	Distance Factor and Time scale paran	neters	3
31.	Regi	ional plan takes into Account of		
	(A)	Economy	(B)	Spatial aspects
	(C)	Environmental aspects	10)	All the above
	****	ich one of the following is the Excellent I	Evam	nle of primate city
32.	Whi		(B)	Bombay
	(0)	Paris	(D)	Log Angeles
	(C)	New York	(1)	nog ringeres
33.	The	main advantage of Multi level planning	is	
	38	Bottom up Approach		
	(B)	Public participation is more		
	(C)	Effective and Efficient implementation	on	
	(D)	All the above		

C

34.	The Zonal Development Plan shall show the broad outliner of the following				
	(a)	Boundaries of the neighbourhoods wit	h gros	ss residential density	
	(b)	Major internal road and services			
	(c)	Community Centre			
	(d)	Neighbourhood parks			
	(e)	Location of high schools and primary s	school	s	
	S	(a), (b), (c), (d), (e)	(B)	(a), (b), (d), (e)	
	(C)	(a), (b), (c)	(D)	(a), (d), (b)	
35.	The	idea of structure plan was developed in		——— in the year 1971.	
	4	Britain	(B)	France	
	(C)	New York	(D)	Delhi	
36.	Foll	owing facilities cannot be provided a	nd re	gulated by an individual community for	
	Aut	hority area sharing Common Interest	- res	ults in the formation of Regional Planning	
	(a)	air pollution			
	(b)	unifies correlation system			
	(c)	water distribution			
	(d)	solid waste disposal			
	(e)	sewage treatment			
	4	(a), (b), (c), (d), (e)	(B)	(a), (b), (c)	
	(C)	(b), (c), (d), (e)	(D)	(b), (d), (e)	
37.	In C	handigarh Master Plan the Dimension of	of eacl	h sector is	
	W	1.2 km in length and 0.8 km in width			
	(B)	1.5 km in length and 1 km in width			

(C)

(D)

 $2~\mathrm{km}$ in length and $1.5~\mathrm{km}$ in width

 $1.2~\mathrm{km}$ in length and $1~\mathrm{km}$ in width

38.	Mes	o regions are the Sub-divisions of		
	4	Macro-regions	(B)	Micro-regions
	(C)	Metropolitan region	(D)	Functional region
39.	The	pressure behind regionalism comes fr	om the	following groups
	(a)	Those seeking Administrative devolu	ution fro	om Central Government
	(b)	Those seeking Local Government rec	organisa	ation
	(c)	Those seeking a more efficient Land	use Pla	nning System
	LAS	(a), (b), (c)	(B)	(a), (c)
	(C)	(b), (c)	(D)	(a), (b)
40.		Indian conditions, the hierarchy of R fold manner	egional	Planning can be classified in the following
	(a)	Metropolitan on city regions		
	(b)	River Valley regions		
	(c)	Axial Development regions		
	(d)	Transitional or depressed regions		
	UM	(a), (b), (c), (d)	(B)	(a), (c), (d), (b)
	(C)	(b), (c), (d), (a)	(D)	(a), (c), (d), (b)
41.	The	National Development Council (NDC)) consist	t of
	(a)	Prime Minister		
	(b)	Chief Minister's of State		
	(c)	Member's of Planning Commission		
	(d)	Member of Parliament		
	W	(a), (b) & (c)	(B)	(a), (b), (c) & (d),
	(C)	(a), (c), (d)	(D)	(a) & (b)
42.	Wha	at type of Regional Plan was prepared	for Ara	nsol-Durgapur Complex
	(A)	Metropolitan Region	9	Industrial complex
*1	(C)	Backward region	(D)	River barin

43.	The I		for a me	dium Town with a population of > 50,000
	1	135 – 150 LPCD	(B)	150 – 200 LPCD
	(C)	120 – 135 LPCD	(D)	110 – 120 LPCD
44.	How	the employer holds the contractor?		
	(i)	Security bond		
	(ii)	Withholding around 10% on all on a	account b	ills
	(iii)	Withholding the materials dumped	at site	
	(A)	(i) and (ii)	(B)	(i) and (iii)
	(C)	(ii) and (iii)	- 01	(i), (ii) and (iii)
45.	If t_p will be		nistic tim	e of an activity, the variance of the activity
	(A)	$\left(\frac{t_p - t_o}{6}\right)$		$\left(\frac{t_p - t_o}{6}\right)^2$ $\left(\frac{t_p - t_o}{4}\right)$
	(C)	$\left(\frac{t_p - t_o}{6}\right)^3$	(D)	$\left(\frac{t_p-t_o}{4}\right)$
46.	Whic	ch one specify the unit rates require	d to supp	ly labour and materials
	(A)	Bill of quantities	.00	Bill of schedule
	(C)	Tender bond	(D)	Schedules for completion
47.		of the following method falls und	ler non-d	eterministic approach or the probabilistic
	W	PERT	(B)	CPM
	(C)	GANTT chart	(D)	Bar chart
48.	Bar	chart was introduced by		
	(A)	Catanese	D	Henery Gantt
	(C)	Lowry	(D)	Melville Branch

(A)

(C)

Bar diagram

Slack diagram

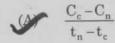
49.

(P) Histogram

(D) Milestone chart

In resource allocation, plotting the resources usage profile is called

50. If C_c , C_n , t_n and t_e are the crash cosh, normal cost, normal time and crash time respectively, the cost slope is given by



 $(B) \quad \frac{C_n - C_c}{t_n - t_c}$

(C) $\frac{C_c - C_n}{t_c - t_n}$

(D) $\frac{C_n - C_c}{t_c - t_n}$

51. The following is an indication of ahead of schedule condition (excess resources)

(A) Zero slack

Positive slack

(C) Negative slack

(D) Slack

52. If T_S , T_E , and σ are the scheduled time of completion, expected time of completion and standard deviation respectively, the probability factor (Z) will be

TS-

(B) $\frac{\text{TE} - \text{TS}}{\sigma}$

(C) $\frac{\sigma}{\text{TS - TE}}$

- (D) $\frac{\sigma}{\text{TE-TS}}$
- 53. When probability factor (Z) is positive, the chances of completing the project in time is

More than 50%

(B) Less than 50%

(C) Fifty - Fifty

- (D) Less than 30%
- 54. To accept a project, its Net present value should be

(A) Negative

(B) Zero

(C) Positive

- (D) Minimum
- 55. Which of the following is categorised under deterministic approach

(A) PERT

C

CPM

(C) Bar Chart

(D) Gantt Chart

56.	The	The specific instant of time at which the part of the plan is achieved is called						
	40	Event	(B)	Activity ·				
	(C)	Design	(D)	Fram				
57.	In w	which of the following process of	numbering	g, when an event is added later, it can be				
	assig			imediate predecessor event and immediate				
	4	Skip numbering						
	(B)	Regular numbering						
	(C)	Dual numbering						
	(D)	Single numbering						
58.	Whic	ch of the following focus on certai	n enisodie	c events like formation issues of society				
	Which of the following focus on certain episodic events like formation, issuance of capital, major expansion, merger, reorganisation and liquidation in the life cycle of the firm							
	(A)	Capital budgeting						
	(B)	Capital structure						
	40	Financial management						
	(D)	Working capital management						
59.	Emir	nant domain DOES NOT Provide t	he right to	o Government				
	4	Acquire the land without compen	nsation					
	(B)	Acquisition of land for public use						
	(C)	Power to take property from the	individual	d .				
	(D)	None of the above						
60.	73rd a	and 74 th constitutional amendmen	ts related t	to				
	(A)	Abolishing the urban land ceiling	g Act					
	(B)	Providing restricted role to Judio	ciary to set	ettle rural disputes				
	10			cipal and local bodies for planning and				
	(D)	Providing right to information to	the public	ic				
ATP	/18		12	c				

- 61. The golden quadrilateral, as part of the National Highway Development Project (NHDP) connects
 - (A) Delhi Mumbai Chennai Delhi

Delhi – Mumbai – Kolkata – Delhi

- (C) Delhi Mumbai Bangalore Delhi
- (D) Delhi Mumbai Hyderabad Delhi
- 62. In transport economics; VOC stands for
 - (A) Vehicle Operating Condition
 - (C) Variable Operating Cost
- Vehicle Operating Cost
 - (D) Variable Operating Condition
- 63. In Indian Conditions, the highway systems for urban roads are generally classified in the following hierarchical order, namely
 - 1. Express way
 - 3. Arterial road
 - 5. Local street
 - (4) 1-3-4-2-5
 - (C) 1-2-3-4-5

- 2. Collector street
- 4. Sub arterial road
- (B) 1-4-3-2-5
- (D) 3-4-2-5-1
- 64. If a bus is travelling at 80 kilo meter per hour, the minimum intermediate right distance for over taking should be?
 - (A) 240 m

(B) 360 m

(C) 180 m

- (D) 160 m
- 65. What should be the minimum slope of a camber as per Indian Road Congress for thin biluminous surface?
 - 2.0 2.5%

(B) 1.5 - 1.9%

(C) 2.6 - 3.0%

- (D) 3.0 4.0%
- 66. If a bus is travelling at 100 KmpH along a major roads at priority intersection on rural roads, the minimum visibility distance should be
 - (A) 270 m

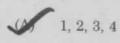
C

(B) 250 m

(C) 190 m

(D) 290 m

67.	In t	he inventory of public transport buses, the following datas are present
	1.	Total number of buses
	2.	Fare structure
	3.	Routes and schedule



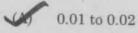
4.

(C) 1, 2, 4

- (B) 1, 2, 3
- (D) 1, 2
- 68. Mons rail system is another variety of

Operating speed

- (A) Light rail transit
- (B) Sub urban train
- Rapid rail transit
- (D) Bus road transit system
- 69. The coefficient of rolling resistance for a vehicle on cement concrete and asphalt surfacing should be between



- (B) 0.02 to 0.025
- (C) 0.015 to 0.3
- (D) 0.04 to 0.05
- 70. The main features of express way are as follows
 - Complete seperation of opposing traffic
 - 2. Parking-loading and unloading of goods is permitted
 - 3. Elimination of all crossing at the road level
 - 4. Police and Traffic aid ports at convenient intervals
 - (A) 1, 2, 4

(B) 1, 2, 3, 4

1, 3, 4

(D) 1, 2, 3

	9	Mitchell and Rapkin	
	(C)	Buchanan	
	(D)	Hutchinson	
72.		division of zones for transportation survey; the ignated as:	central sector (CBD) is normally
	(A)	1 (B) 3	
	(C)	2 (D) 0	
73.	trans	ia is moving towards ITS, which allows a person nsfers within or between different transport modes ands for?	The state of the s
	(A)	Integrated Transit System	
	(B)	Internal Ticketing System	
	(C)	Intelligent Ticketing System	
	S	Integrated Ticketing System	
74.	Which	nich one among the following project is not considered	as quantifiable projects?
14.	(A)	Family welfare	ab qualitations projects.
	(B)		
	(C)		
	(D)	Water supply	
75.	In u	urban transport sector, SLB means	
	W	Service Level Benchmarks	
	(B)	System Level Benchmarks	
	(C)	Station Level Benchmarks	
	(D)) Standard Level Benchmarks	
c		15	ATP/18

The statement 'urban traffic was a function of land use' was made in 1954 by

71.

(A)

Lowry and garin

76.	76. In cross-sectional elements in highway design; the line representing the nearest limit future uncontrolled building activity in relation to a road is called as			
	(A)	Building line	D	Control line
	(C)	Desire line	(D)	Curt line
77.		der to derive the travel characteristic		ne whole population from the data derived
	(A)	correlation factor		
	(B)	choice factor		
	9	expansion factor		
	(D)	normalisation factor		
78.	A mu		trucks	are carried on ships over long distances are
	(A)	Trailer on flat car system		
	BY	Roll on Roll Off System		
	(C)	Piggy back system		
	(D)	Water-trailer system		
79.	Tonga	a & Matador Nan; vehicles found in Ir	ndian s	treets can be grouped under
	(A)	Public transport		
	0	Para transit		
	(C)	Popular transport		
	(D)	Primary transport		
80.	A roa	d junction laid out for traffic moveme	nt in 1	direction around a central island is called
	(A)	Rotary island		
	(R)	Rotary intersection		
	(C)	Rotary merging		
	(D)	Rotary diverging		
ATI	P/18	1	6	c

81.	Whic	h one of the following is a Raster d	ata type?	
	(A)	Points	(B)	Polygons
	(C)	Lines		Pixels
82.	Whic	ch of the following statements is tru	ie about tl	he capabilities of GIS?
	(A)	Data capture and preparation		
	(B)	Data management, including stor	rage and r	maintenance
	(C)	Data manipulation, analysis and	3D virtua	al reality
	0	Data capture, management, man	ipulation,	analysis and interpretation
83.	Digit	tal land survey requires preparation	n of	
) ×	(A)	Planimetric map		
	(B)	Contour map		
	(C)	Planimetric map and Contour ma	ар	
	VO	Topographic map		
84.	Cada	astral map refers to		
	(A)	Topography of Land		
	(B)	Statistical Data of Land		
	(C)	Contour of Land		
	0	Boundaries and Ownership of La	ind	
85.	In N		ne followin	ng determines the optimal path along the
	(A)	Network Tracing		
	0	Network Routing		
	(C)	Network Allocation		
	(D)	All the above		
c			17	ATP/18

86.	Who	is	known	as	father	of	GIS?
-----	-----	----	-------	----	--------	----	------

- (A) Boyle
- (B) Roger Tomline
- (C) David Bickmore
- (D) Mcharg

87. In GIS, area feature has

- (A) 3 dimensions
- (P) 2 dimensions
- (C) 1 dimension
- (D) 1 and 2 dimensions

88. Creation of polygons that surround other points lines is known as

- (A) Overlaying
- (B) Reclassification
- Buffering
 - (D) Thematic maps

89. Which among the following scale is not a Fractional Scale?

1:1000

(B) 1:10,000

(C) 1:25,000

(D) 1:1,00,000,00

90. Which of the following is not the GIS/GPS transport application?

- (A) Tracking potholes in roads
- (B) Collect data to develop database for roadways
- (C) Aid in police and fire response to accidents
- Co-ordinate police speed traps

91. Factor maps are created by assigning graduated values from

(A) 0 - 100

(B) 0 - 200

0-255

(D) 200 - 255

92.	Whic	ch of the following is a negative effect of urbanization?	
	(A)	Access to better infrastructure	
	(B)	Access to advancements in technology	
	9	Increased stress of the inhabitants	. 1.
	(D)	Exposure to other cultures	
93.	Acco	rding to sociology, marriage and family are considered to be what?	
	(A)	Association	
	(0)	Institutions	
	(C)	Organization	
	(D)	Grouping	
94.	The	study of interactions among organisms and their environment is known as	
	(A)	Sociology	
	0	Ecology	
	(C)	Bio-science	
	(D)	Relative studies	
95.	Whie	ch one of the following is not the component of the smart city mission?	
	(A)	Application of ICT for Infrastructure	
	(B)	Application of ICT for better Governance	
	(C)	Promoting a variety of Transport options	
	9	Industrial Development	
96.	Whi	ch one of the following is not the internal source of income for municipalities?	
	(A)	Property tax	
	(B)	Service charges	
	(C)	Licences charges	
	0	Grants	
-		10	ATI

	(A)	Le Corbusier	(B)	Constantine Doxiadis
	C	F.L. Wright	(D)	Kenzo Tange
98.	The	most often used model in trip distrib	bution-tra	insportation planning is
	(A)	Matrix model	D	Gravity model
	(C)	Lowry model	(D)	Simulation model .
99.			ent invol	ving not only a set of goals but also a policy
	to at	tain those goals is called		
	(A)	Master plan	. (B)	Structure plan
	100	Comprehensive plan	(D)	Detailed development plan
100.	In ae	erial photography, measurement tak	cen at the	centre of the picture is denoted as
	(A)	Vertical point	(B)	Critical point
	9	Principal point	(D)	Oblique point
101.	Phot	o coverage in aerial photography va	ries with	
	(A)	Exposure and Altitude	(B)	Focal length and Camera angle
	(C)	Camera angle and Exposure	DY	Focal length and Altitude
102.				elation between regions and industries,
	calcu	ulation of ratios and multipliers are	called	
	(A)	Location co-efficient analysis	D	Input output analysis
	(C)	Industrial complex analysis	(D)	Growth analysis
103.	Map	ping of the "Digestive Process" of ur	ban areas	denotes
	(A)	Transportation	0	Utilities
	(C)	Housing	(D)	Land use
ATP	/18		20	
			0-00	

97.

The concept of "Broad Acre Plan" was designed by

104.	One o	of the 1st gravity models to be applied if		
	(1)	T.R. Lakshmanan and W.G. Hansen	(B)	Lowry and Garin
	(C)	Walter Christaller	(D)	David Huff
105.	Reilly	y's Law discussed the concept of		
	(A)	Location theory	(B)	Central place
	(C)	Structure plan	98	Gravitational retailing
106.	Limi	tations imposed by the urban form and	patte	rn in planning analysis is called
	(A)	Physical threshold	B	Structural threshold
	(C)	Spatial threshold	(D)	Quantitative threshold
107.	The	threshold constituted by maximum pot	ential	capacity of public utilities is called
	(A)	Qualitative threshold	(B)	Physical threshold
	9/	Quantitative threshold	(D)	Structural threshold
108.	The	physical limitations to growth encount	ered b	y towns are called
	(A)	Slack	9	Threshold
	(C)	Backlash	(D)	Trickle-Down
109.		els that consider more than one form o	of activ	rity or land use and respective relationships
	(A)	Partial models	9	General models
	(C)	Lowry model	(D)	Descriptive models
110.	The	model that assumes that population a	nd noi	n-basic employment can be uniquely derived
110.		n basic employment is called		
	US	Ira Lowry model	(B)	Garin model
	(C)	Reilly's model	(D)	Chapin model
				ATP/18

111.	The	The statistical method used to measure the inter-dependency among variables is called							
	(A)	Multivariate analysis method		Multiple regression method					
	(C)	Linear regression method	(D)	Correlation method					
112.	The	statistical analysis technique which	h dienlar	vs inter-relationship between all variables					
		their observations is called	n dispiay	vs inter-relationship between all variables					
	4	Multivariate analysis	(B)	Regression analysis					
	(C)	Correlation analysis	(D)	Matrix analysis					
113.	The t	trickle down theory in 60's and 70's	was repla	aced by					
	(A)	Choice theory	(P)	Trade off theory					
	(C)	Filter down theory	(D)	Functional theory					
114.	The t	theory of planning that treats its su	bject mat	ter as a researchable phenomenon is called					
	(A)	Functional theory	(B)	Choice theory					
	(C)	Normative theory	-	Positive theory					
115.		scriptive statement involving defini-	tions, pos	tulates and asserting truth in relationship					
	(A)	goal	(1)	fact					
	(C)	value	(D)	agenda					
116.	Advo	cacy planning was formulated in the	e 1960's b	by .					
	(A)	Peter Hall	(B)	Melville C. Branch					
	4	Paul Davidoff	(D)	A. Faludi					
117.	What	t is meant by RWG strategy?							
	(A)	Regeneration with growth	(B)	Redevelopment with					
	4	Redistribution with growth	(D)	Redevelopment with growth Resettlement with growth					
A / Bress or		Brown and	(1)	rescutement with growth					
ATP	/18		22	C					

	4	1986	(B)	1992
	(C)	1984	(D)	1974
119.	The i	impact of developmental activities on the	ne hyd	rosphere causes
	(A)	Air pollution	(B)	Soil pollution
	(C)	Soil erosion		Water pollution
120.	Selec	ct one of the method which is NOT an e	xamp	le of an approach to impact assessment
	(A)	Expert Judgement	(B)	Social impact assessment
	(C)	Matrices and interaction diagrams	D	One-off impact assessment
121.	Purp	oose of the "Screening" in EIA		
	(A)	To assess the quality of the project de	esign	
	(B)	To assess the potential impacts of pr	oject	
	101	To determine whether a proposal req	uires	EIA or not
	(D)	To assess project life cycle		
122.	It co	ntains a detailed plan for managing ar	nd mor	nitoring environmental impacts both during
		after implementation		
	(A)	Environmental Impact Assessment	(B)	Environment Management Plan
	(C)	Detail Project Report	9	Environmental Impact Statement
123.	Risk	assessment is a system of analysis tha	at incl	udes
	(i)	Identification of a substance.		
	(ii)	Scenarious for exposure to the toxical	nt.	
	(iii)	An estimate of the probability.		
	(A)	(i)	(B)	(ii)
	(C)	(iii)	9	(i), (ii) and (iii)
c		2	3	ATP/18 [Turn over

118. The Environmental (Protection) Act was enacted in the year

	. (23)	1360		1981
	(C)	1988	(D)	1986
125.		following is the most common form	of envir	onmental degradation in the cities of both
	15	Air pollution	(B)	Water pollution
	(C)	Noise pollution	(D)	Physiological and Ergonomics
100	3771	1		
126.		th one of the following effects odour		
	(A)	Physiological effects and psycholo	gical effec	ets
	(B)	Psychological effects		
	(C)	Environmental effects		
	9	Physiological effects		
127.		ch one of the pollution is mainly ass	sociated w	vith built-up areas, its significance extends
	4	Air pollution	(B)	Noise pollution
	(C)	Water pollution	(D)	Physiological pollution
128.	Envi	ronmental (Protection) Rules "Envir	ronmenta	l Statement" has been in existence since
		1991		1993
	(C)	1994	(D)	1999
129.	Stan	dards for emission or discharge of e	nvironme	ental pollutants is set by
	. 46	The Environment (Protection) Ru		
	(B)	The Water Act (2000)	103, 1000	
	(C)	Environment (Protection) Act, 198	0.0	
	(D)	Environment (Protection) Act, 196 Environment (Protection) Act, 200		
	(1)	Environment (Frotection) Act, 200	00	
ATP	/18		24	c

124. Air (Prevention and Control of Pollution) Act has been in existence since

130.	Comprehensive Development plan aims at								
	(A)	Comprehensive Zoning Regulations							
	(B)	Identity and improve major Roads							
	(C)	Assign Areas for Housing Developmen	nt .						
		All the above							
131.	What	t is the main contribution to town plans	ning b	y Ebenazer Howard					
	(A)	Combining town and country to have	advar	atage of both					
	(B)	Publicly owned or Co-operative land	wner	ship					
	101	Communities that are limited in size	and d	ensity to have human identity					
	(D)	All the above							
132.	What	t must be the main characteristics of De	evelop	ment Plan					
	(A)	Policy framework for overall Development							
	(B)	Development of ideas and policy making							
	(C)	Put forth the major issues and policies before the public and authorities of the State							
	9	All the above							
133.		Chambal Project – an irrigation – cun	n – hy	rdro – power project – is controlled by two					
	SIN	Rajasthan and Madhya Pradesh	(B)	Rajasthan and Punjab					
	(C)	Madhya Pradesh and Maharashtra	(D)	Punjab and Hariyana					
134.	Mad	ras Town Planning Act was passed in t	he yea	ar					
	1	1920	(B)	1925					
	(C)	1957	(D)	1971					
135.	Soil	stack collects waste waters from							
	(A)	Baths	(B)	Sink and wash basins					
	(C)	Urinals and kitchen	S	Toilets					
	1 10			ATP/18					
0		2	9	[Turn over					

		1 km in length and 0.75 km in width			
	(B)	1.2 km in length and 0.8 km in width	1		
	(C)	1.5 km in length and 1 km in width			
	(D)	0.75*km in length and 0.5 km in wide	th		
137.		ensity of familier per acre standard density for the Garden cities	was s	suggested by Ebenezer Howard and become	n
	4	12	(B)) 10	
	(C)	15	(D)) 8	
138.	The	structure of the Greater London Plan 1	.994 w	was based an Zoning in four rings. They ar	re
	(a)	The Inner Ring			
	(b)	The Suburban Ring			
	(c)	The Middle Ring			
	(d)	The Green belt Ring			
	(e)	The Outer country Ring			
	(f)	The Outer Ring			
	M	(a), (b), (d), (e)	(B)	(a), (c), (d), (f)	
	(C)	(a), (c), (d), (e)	(D)	(b), (c), (d), (e)	
139.	Sir l	Patrick Geddes gave his expert advice for	or abo	oout — major towns in India	
	S	18	(B)) 15	
	(C)	20	(D)) 10	
140:	The	Actual physical area of a Regional Plan	ning	; is	
	4	Lier between National and Local Lev	el		
	(B)	Same as Local Level			
	(C)	At National Level			
	(D)	None of the above			

26

136. In Gandhi nagar, the dimension of each sector is

ATP/18

141.	Damodhar Valley Corporation is the first inter-state river development regional agency, constituted in the year						
	100	1948	(B)	1952			
	(C)	1955	(D)	1949			
142.	A fac	tor affecting domestic demand of water					
	(A)	Dead and system of network of pipes	(B)	Turbidity of water			
	(C)	Hardness of water		Climatic conditions			
143.	Whic	h one of the following is not a solid was	ste dis	posal method			
	(A)	Incineration	(B)	Composting			
	(C)	Land fill	9	Activated sludge process			
144.	Desig	gn period of sewage systems will be in	the ra	nge of			
	4	5 – 50 years	(B)	less than 5 years			
	(C)	60 - 70 years	(D)	80 – 90 years			
145.	A Sa	nitary Sewer is expected to run					
110.	(A)	Full	(B)	Half full			
	5	2/3 full	(D)	90% full			
146.		ch calculating the standards, the partic	ipatio	n of work force is taken as			
	of to	tal population.	(D)	0.50/			
	9	33%	(B)	35%			
	(C)	40%	(D)	50%			
147.		ision of one electric sub station of 11 k general standard for all categories of t			is recommended		
	A	15,000	(B)	20,000			
	(C)	10,000	(D)	5,000			
c		2	7		ATP/18 [Turn over		

- (A) Cartesian distribution
- (B) Beta distribution

(C) Alpha distribution

Gaussian distribution

149. In a network diagram, any path of activities that leads back into itself is called

(A) Network cycle

(B) Looped cycle

(C) Cyclic network

Loop network

150. In a big network, rules for numbering was devised by :

D.R. Fulkerson

(B) Henery Gantt

(C) Melville C. Branch

(D) A. Faludi

151. Negative float for any activity means that the activity is

Super-critical

(B) Sub-critical

(C) Critical

(D) Either (A) or (C)

152. Cost slope of the direct cost curve is given by

- $(A) \qquad \frac{Crash\ cost\ -\ normal\ cost}{Crash\ time}$
- (B) $\frac{\text{Crash cost} \text{normal cost}}{\text{Crash time} \text{normal time}}$
- (C) $\frac{\text{Normal cost} \text{crash cost}}{\text{Crash time} \text{normal time}}$
- Crash cost normal cost
 Normal time Crash time

153. The following is the longest path (time wise) connecting the initial and end event

Critical path

(B) Non-critical path

(C) Network

(D) Slack path

154. If t_0 , t_p and t_L are the optimistic, pessimistic and most likely time estimates of an activity respectively, the expected time of the activity will be

(A) $\frac{t_0 + 3t_L + t_p}{5}$

(B) $\frac{t_0 + 2t_L + t_p}{4}$

(C) $\frac{t_0 + 4t_L + t_P}{5}$

 $\frac{t_0 + 4t_L + t_p}{6}$

C

155.	If PVB and I are the present value of benefits and initial investment, the Net Benefit Cost	t
	Ratio (NBCR) will be	

- (A) $\frac{PVB}{I}$
- $\frac{PVB-I}{I}$

- (B) $\frac{I}{PVB}$
- (D) $\frac{I PVB}{I}$

156. How can be networks constructed?

- (i) Either by forward planning
- (ii) Either by backward planning
- (iii) Combination of both forward and backward planning
- (A) (i)

(B) (ii)

(C) (iii)

(i), (ii) and (iii)

157. When the float of the activity is positive, such activity is called

Sub-critical activity

(B) Critical activity

(C) Super critical activity

- (D) Non-critical activity
- 158. The difference between the present value of future cash benefits and the initial outlay represents
 - 30

Net present value

(B) Present value of benefits

(C) Net benefit-cost ratio

(D) Present investment

159. Which one marks the beginning of an activity

(A) Head event

(B) Dual role event

(C) Dual role node

Tail event

160. The event represents the end of the activity is known as



Head event

(B) Tail event

(C) Dual role event

(D) Activity

161.	Impetus behind the formulating IDSMT (Integrated Development of Small and Medium Town) is						
	(A)	Economic development of town	through indu	strial development			
	(B)	Identity and provide financial	assistance to t	owns			
	4	Small and medium towns to a cities	ct as a growth	centers to check the migration to larger			
	(D)	All the above					
162.	Nagar Panchayats and District planning committees in India were introduced as a result of						
	(A)	(A) National Urbanisation Policy					
	(B)	JNNURM					
	(C)	Electoral reforms					
	0	73rd and 74th Constitution Am	endment Act				
163.	The section which declares regional planning areas, local planning areas and their amalgamation and sub division and inclusion from other regions and local area is						
	Jun -	Section 10 of Tamil Nadu Town and Country planning Act					
	(B)	Section 110 of Tamil Nadu Town and Country planning Act					
	(C)	Section 210 of Tamil Nadu Town and Country planning Act					
	(D)	Section 310 of Tamil Nadu To	own and Count	ry planning Act			
164.	The fee for exempting the development of any land or building or class of lands or buildings referred to in section 113 A as per Tamil Nadu town and country planning Act is						
	(A)	Building fee	01	Regularisation fee			
	(C)	Development fee	(D)	Approval fee			
165.	. AASHTO refers to						
	(A) American Association of Sectoral Highway and Transport officials						
	081	American Association of State Highway and Transport officials					
	(C)	American Association of Sta	te Highway an	d Traffic Officials			
	(D)	American Association of Sta	te Highway an	d Transportation Officers			

30

ATP/18

C

2.	Annual average daily traffic		
3.	Hourly flow		
Which	of the above levels of measurement	ent of flow i	s correct?
W	1, 2, 3	(B)	1, 3
(C)	1, 2	(D)	2, 3
In orig	gin and destination survey, the in	ternal to in	ternal travel is best studied using
W	Home Interview survey		
(B)	Commercial vehicle survey		
(C)	Public transport survey		
(D)	Tag survey		
Speed		re best don	e using the following method
	Moving Observer Method		
(B)	Registration Number Method		
(C)	Elevated Observer Method		
(D)	Photographic method		
The L	anoth of time enent in a parking s	enace is call	ac ha
The I			Parking load
(C)			Parking Index
(C)	Parking volume	, (D)	Tarking muck
A spe	eed of — meter in half	an hour is	a useful guide when doing parking useage
(A)	1000	S	900
(23)			
(C)	800	(D)	700
	3. Which (C) In ori (B) (C) (D) Speed (B) (C) (D) The l (A) (C) A spe	Which of the above levels of measurement of 1, 2, 3 (C) 1, 2 In origin and destination survey, the information of the informa	Which of the above levels of measurement of flow is the following of the survey (C) Public transport survey (D) Tag survey Speed and delay studies along routes are best done (C) Elévated Observer Method (D) Photographic method The length of time spent in a parking space is call (A) Parking duration (B) (C) Parking volume (D) A speed of — meter in half an hour is survey by patrol.

The common levels of measurement of vehicle flow are

Average annual flow

166.

1.

1.1.	vv Ha	t are rangible benefits in the following:	
	(i)	Additional Property tax	
	(ii)	Providing better service to the customers	
	(iii)	Improving quality of Company's products	
	(iv)	Savings due to reducing investment	
	(A)	(i) and (ii)	
	(B)	(ii) and (iii)	
	10	(i) and (iv)	
	(D)	(i) and (iii)	
172.	The	no: of vehicles passing a specified point during a stated period of time is called	
	(A)	Speed	
	0	Flow	
	(C)	Movement	
	(D)	Headway	
173.	The	median separating dual carriageways is also referred to as	
	(A)	Shoulder	
	(B)	Mid reservation	
	401	Central reservation	
	(D)	Split reservation	
174.	Park	and walk; park and ride; refer to	
	(A)	Multi-storey car parking scheme	
	(B)	Mechanical parking scheme	
	(C)	Roof parking scheme	

Peripheral parking schemes

C		33	A'
		Screen lines	
	(C)	Desire lines	
	(B)	Internal cordon lines	
	(A)	External cordon lines	
179.	The i	maginary lines dividing the study area taken for survey into parts is called as	
	(D)	Pradhan Mantri Gram Sangh Yojna	
	(C)	Pradhan Mantri Gram Seva Yojna	
	(B)	Pracheen Mukya Gram Sadak Yojna	
	4	Pradhan Manti Gram Sadak Yojna	
178.	In the	e context of Rural Road Development Plan; PMGSY refers to	
	(D)	Thomas Telford	
	(C)	John Mac Adam	
	D	Tresaguet	
	(A)	Sully	
177.	The "	father of modern highway engineering" was	
	5	momentum grade	
	.(C)	main grade	
	(B)	manageable grade	
176.	(A)	ghway design; the maximum gradient is also called as multigrade	
170	To be		
	(D)	merging	
	(C)	grade separation	
	(B)	centering	
	W	alignment	
175.	The p	process of laying out/layout of the centre-line of the highway is called as	

180.	The use of gentler gradients because of Topography compulsion is called as							
	(A)	Steep gradient						
	0	Limiting gradient						
	(C)	Exceptional gradient						
	(D)	Moderate gradient						
181.	The f	freeway restricted to pleasure vehicle	s and ha	ving scenic qualities is called as				
	(A)	Highway	(B)	Express way				
	(C)	Pathway	0	Parkway				
182.	The concept of reducing the negative aspects of trip making is called							
	(A)	Cost reduction						
١,	0	Impedance minimization						
	(C)	Trip distribution						
	(D)	Impedance normalisation						
183.	The	main components of GIS						
	1.	people	2.	hardware				
	3.	software	4.	data				
	5.	methods	6.	website				
	VA	1, 2, 3, 4 and 5	(B)	1, 3, 4, 5 and 6				
	(C)	1, 2, 3, 4 and 6	(D)	2, 3, 4, 5 and 6				
				7, 5, 4,5 4111				
184.	'GPS	S' stands for						
	(A)	Geographic Positioning System						
	(B)	Geographic Parking System						
	(C)	Global Parking System						

Global Positioning System

185.	DEM	represents —	in GIS.			
,	w	Terrain				
	(B)	Vegetation Data				
	(C)	Elevation Data				
	(D)	Rainfall				
186.	Buffe	ering technique in GIS is	used for			
	(A)	land use mapping				
	(B)	Time distance Analysis				
	(C)	Time-Delay Analysis				
	0	Location Analysis				
187.	Spatial objects with No Area is represented in GIS by					
	Jan Jan	Point	(B)	Line		
	(C)	Polygon	(D)	Nodes		
188.	Geographic Information System combines map with					
	(A)	Computer automation,	Statistics and Topol	ogy		
	0	Computer graphics, dat	abase and analytica	l tools		
	(C)	Computer graphics, info	ormatics and quanti	tative tools		
	(D)	Computer informatics,	latabase and qualit	ative tools		
189.	GPS	is considered very effective	ve when combined w	vith GIS due to		
	(A)	Capability to provide ac	curate location			
	(B)	Capability to provide la	titude and longitude	е		
	10	Capability to provide la	titude, longitude an	d altitude		
	(D)	Capability to provide sp	atial database			
190.	Whi	le editing spatial data top	ological errors arise	due to		
	(A)	Dangle	(B)	Silver		
	(C)	Digitizing and Geocodin	ng 🐷	All the above		
			0.7			

	(A) ,	Refers to the point at which the visitor feels that additional people in the environment would spoil the experience	nent			
	(B)	Refers to the point at which the investment needed to sustain environmental que becomes prohibitive	ality			
	(C)	Refers to limits of use in the system				
		A measure of the ability of the host community to tolerate tourism				
192.		The measure of Humanity's demands on the natural Environment devised in 1990 by Wackernagel and Rees is				
	(A)	Socio-Economic foot print				
	(B)	Human development index				
	(C)	Environment index				
	9	Ecological foot print				
193.	Concepts of carrying capacity of an eco system is introduced by					
	(A)	*Lewis Mamford				
	(B)	Constantine Doxiadis				
	(C)	Patric Abercrombie				
3	9	Thomas Malthus				
194.	Whic	h mode of transportation has the lowest impact on urban environment?				
	(A)	A Personal Vehicle (B) A City Bus				
	(C)	A Metro Rail A Bicycle				
195.	PMG	SY and JNNURM are two Indian government schemes which deal with				
	4	Rural road development and Urban basic service improvement respectively				
	(B)	Rural sanitation services and Under developed road maintenance respectively				
	(C)	Peri-urban basic services and Urban basic service improvement respectively				
	(D)	Rural road development and Urban transport development respectively				
ATP	12042					
AIP	10	36	C			

What is social carrying capacity in terms of tourism?

191.

196.	Econ	nomies of scale refer to the reduction in cost that firms achieve by			
	4	Producing in larger volumes of output			
	(B)	Producing in smaller volumes of output			
	(C)	Making production function as linear			
	(D)	None of the above			
197.	Whic	ch of the following is not a characteristic of an urban community?			
	4	Homogeneity in dress, language and customs			
	(B)	Faster means of communication			
	(C)	Higher impersonal relations			
	(D)	Formal social life			
198.	Which of the following is not a benefit of the Economies of Agglomeration?				
,	10	High land prices			
	(B)	Lower transportation costs			
	(C)	Stronger local market			
	(D)	Accumulation of knowledge and human capital			
199.		des the hydrological (water) cycle and the biogeochemical (nutrient) cycle what are the two important Ecological processes?			
	(A)	Energy flow and growth cycles			
	(B)	Community dynamics and growth cycles			
	JOY	Energy flow and community dynamics			
	(D)	Carbon and nitrogen cycles			
200.	Whic	h of the following statement about Social Development is true?			
	(A)	Social development only implies monetary benefits			

Social development is about putting people at the center of development

Social development processes only benefit the rich

Social development does not imply change in social institutions

(B)

(C)

C

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK

ATP/18 [Turn over

39

SEAL