· .	Page No Date \tag{\mathcal{O}}
	No. of System
	No. System -
2	Complex No Cwhich does not exists like (2i+5)]
	Real No -
	A Rational No 3 Which can be represent in P for ex 3 3 4
<u>B</u>	Ixxation No - Can not be represented in P (+ P)
	for Ex 22 (arrong) Value of π = (3.14597)
A	Rational No -
	1 Integers 1 É Eraction
<u> </u>	Integers - Classification into two methods:
	b - Ve Integers > -1, -2, -3 0
Note	-> O is not an integer + no 8 - ne integer
Ü	Esoction -
	less than denominator
	(N < D) For ex = 3, 4, 7
<u>b</u>	Improper Fraction - In which the primerator is greater
	(N>D) = A 7 9

· - - -

		Page No.	•
		Date     _	
***	Types Of Integers -		
* 1	Natural No. (N) 1, 2, 3, 4		C
٤	Even No (E) > 0,2,4,6,8 -	- = 0	
	Odd No (0) -> 1,3,5,7	_ &	
<b>4</b> 4	whole No (W) → 0, 1, 2, 3, 4	<i>∞</i>	
*	Natural No. Types Are ->		
	Princ No -> A No. which is & not divisible by	any other no.	n itself
ر المحققة الرابعة المحققة الرابعة المحققة الرابعة المحققة الرابعة المحققة المحققة المحققة المحققة المحققة المح	$E_{X} \rightarrow 2, 3, 5, 7, 11, 13, 17, 19, 23$		:
* Nate	Composite No - 3 4, 6,8, 9, 10,12 -	nos a composite	no.
1400	-> 2 is the only even no i	which is a pro	no no
	& rest all prime no are or	dd no.	· ·
		<u> </u>	
6	D= 151 is a prime No?	1 Parala Part to	tho
	1 Step-1 > Find out the neares	Our )	
	given no. Challer		
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
	0		
	→ 12 is mally one		
<u>·</u>			
	Step=2 - Write down all	the Piène no.	less Hah
	12 Hart 11 2.3	5 5 7 9 11 · · · · ·	
	TI the number 15/ es no	t divisible by	2, 3, 5, 7,
	If the number 151 is no 11 then it will a prime	no. other wis	not.

`		Page No
	i 	Date 3
===		151 "
		151 is not divisible by 2,3,5,7,11 hours 151 is
		a prême Mo
-	6 70	
	im! *	Co-Prince No - Two no. which have H.C.f as 1 %
		Set to be Co-Prime No
	<u>Ex</u>	
	->	(2,3) = (2x1)(3x1)
	_	2 1 is common
	->	(3,7) = (3x1)(7x1)
	, , , , , , , , , , , , , , , , , , , ,	o l'is Common
	<del>-)</del>	(8,9) = (2x2x2x1)(3x3x3x1)
		2 l is common
		13 Common
	**	Not all the Day
		DIM SIDURE R W
	Λ	
		2 - If the unit digit of a no is 0,2,6,8,4 then et will be divisble by 2 Ex - 1332, 120, 1548
		will be chuisble by 2
	<u> </u>	EX -> 1532, 120, 15 48
	0	
	<u> </u>	H → If the dost two digit is divibible by 4, then the whole no. is divisible by 4.  Ex → 2652, 3772
		the whole no is divisible by 4.
	•	EX > 2652, 3772
·		· · · · · · · · · · · · · · · · · · ·
	<u>C</u>	& > If the last three digit is divisible by &, then
		Fire whole no is divisible by 8
		8 - If the last three digit is divisible by 8, then the whole no is divisible by 8  Ex 47472
h	<del></del>	
	<u> </u>	3- The Sum of the digits of the given no, should be divisible by 3 [x -> 2553 -> 2+5+5+3=15, which is divisible by 3.
7,	•	be divisible by 3
		Ex + 2553 -> 2+5+5+3=15, which is divisible by 3.

.

	Page No Date	_
E	9 - The sum of the digit of the given no. should be divisible by 9.  Ex -> 108936 -> 1+0+8+9+3+6=27, which is divisible by 9.	_
	Ex > 108936 -> 1+0+8+9+3+6=27, which is divisible by 9.	_
F	5→ The unit digit should be 0,5 Ex 150, 505, 10005	_
<u>G</u>	[0→ The unit digit should be 0]  Ex 2000, 1000, 500, 50	
<u>H</u>	6 -> The no. should be divisible by 2,3 - Where (2,3) -> (o-Rinae No	_
Ţ	12 > The no. should be divisible by 3,4	
* **	-> (2,3) -> Co-Prime No. (2x1)(3x1) -> (3,4) -> Co-Prime No. (3x1)(4x1)	
*	-> (2,6) -> Not a Co-Prime No (2x1) (2x3x1) -	_
<u> </u>	- 11 - 1331 Evan left side	:
Sum	Step-1 Ranking as even & odd 1331 → 1331	_
14.	add Even No-4+2 which are > 1+3=4	_
		_
	Step-2 Difference = Odd-Even	
	I D=0 or Multiple of 11, then the no. is divisible	_ _
	, v	

. .

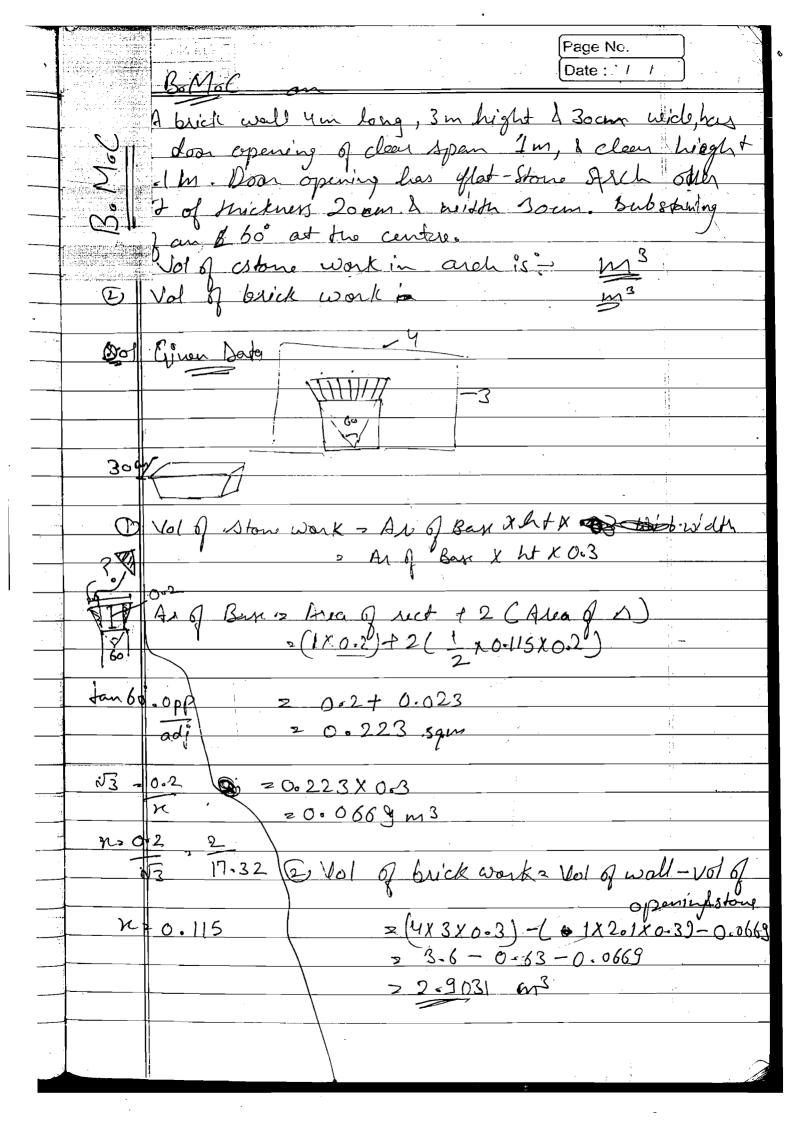
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o'

Page No. BMC Date: / / 5 70 10 \$ 4.40.6 EP ₹ 5 to 6 Services + 11 to 18 B. M.C UP, UD & Landscaping ] God knows PMI & Housing

Antitude - 15 \* Aptitude AOH & - 10 Design

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## Students Personal Record

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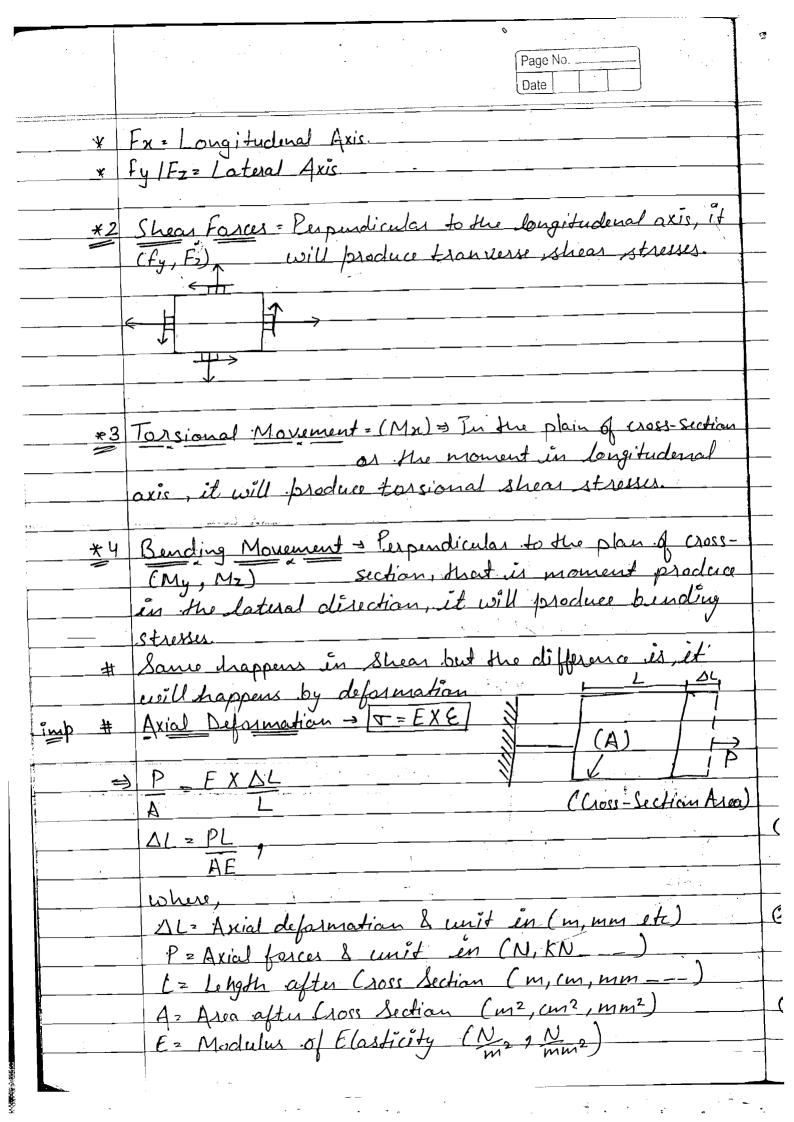
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	Page No.
, Y	Date 6 Oct (a)
	Theory * Numerical
_ <del></del>	Planning Brocess Scale of Map
2	Scale 6 Photograph
	Survey Techniques - Population Profession
	: Type of DOR Survey
	Types of Question
	- Sampling Techniques
	Analysis Techniques
2	Projection Techniques
- 0	Legislation
	Urban Governance
<u> </u>	= Structure of Urban Local Body (ULB)
· · ·	- Urban Fianance
	GIS
	* PTM *
*	Planning Process - Special development planning is a
	Continuous time priented and cuclis
<del></del>	process.
	Decision to Development of Identification of Identification
	Décision to Development of Identification of Identification  Make Plan > Aim & Objective site need & Projectes
	Needs
	Implementation Plan Planning
	Monitoring Approval
	Evaluation and
·	Reveiu
	Cycle Chart
	<b>▽</b> === 0

	Page No Date
	Planning System > Types of Plan ->
	Perspective Plan -> It is long term plan that provides  goals, policies, strategy and general  programe of Urban local Body  Duration is 20 to 30 year CURDFI).
	programe of Urban local Body  Duration is 20 to 30 year (URDFI).
2	Regional Plan -> Duration & 20 years
	Region - Area larger than local government authority but smaller than the state of or nation.
	3 Development Plan/ Master Plan -> Duration 20 to 30 yr (Revenued After every
	5 year)
	4 Local Agen Plan -> Duration 5 to 20 gr (Reveiwed after every 5 yr)
	5 Annual Plan - Duration is 1 year
	6 Special Purpose Plan > 5-20 year Duration  Ex + HRIDAY
	City Sanitation Plan Disaster Management Plan

(A)		Page No Date
		$\frac{MPa \rightarrow N}{mm^2} \rightarrow \frac{10^6 \times N}{m^2} \rightarrow \frac{10^6 \times N}{40^3 + 2 \times mm^2}$
1		mm² m² Ho³t² Xmm²
1		So a cenit will be some
	<del></del>	
	#	Assumption Of Hook's Law > 1 It is valid, when a
		material is isotropic
_		& homogenous ( same composition through out the material)
-	2	It is valid, for linearly clastic materials (will in propo
-		Ational limit)
	<u> </u>	Tsotropic - Vole through out oblique in all direction is
-	Gate 2006	Same.
	(i)	While testing the strength of steel beam it is lound
-	=	While testing the strength of steel beam it is found that the long tudual strain is 0.33 unit & young modulus
	.·	of elasticity 2.1 × 106. What will the stress generated
_		in the steel beam?
_	101	T=EXE,
_		= 2.1 x 10° x 0.33
_		$= .69 \times 10^6$
	Carting III	= ·7 X 106 unit.
-		T , M 01
	#	Typis Of Strice -
_	My [ My	* Total No. of Forces -> in Case Of-3D
		Mxy 7 M2 = 6
_		Mx2 + In Case Of 2D Or Internal forces
	Mzxy Mź	23 (fn, fy & Mny)
_	CrF2	
_	1*	Axial Faire (fx) -> Normal to the plain, it will
-	<u> </u>	reduce normal stress = P
-		A A
-	<b> </b>	P (Normal Stress OR Axial force)
	1	-



RANS PORTATION Cross Sectional of violal Vertical Alignment Honzontal Alignment Planning Types of transportation Survey Pavement design Strutural colorigh material sperification Signals

Introduction of Highway Nagpur Road Congress 1943 A wind way leading from one place to another having specially prepared ypes of Road connections National Highway - Stak highway Highway imp. location in district Village Road - Village Other distruct Road other loc on dished Expression - speed should be DKmlh - only bort moving vehich allowed & two-where not allowed road margin Road way wich / furniah in Road maron Pariement stide stape SIIDU Slop Denno - embontemeno Side drain Road land width Overall klidth blu building lines Overall wirdth blu control likes Cross Sechional clement

	COURSEMATE COS
	Terms:
*	Cavuage Way pavement / Crust
(- · · · · · · · · · · · · · · · · · · ·	The portion of model way constructed for
	movement of vehicle violes is called
	caused way, pavement or + crust
41	
<b>→</b> <del>*</del>	IRC -> Indian Road Congress)
	class of road (arriage way
	Chal
	Single way 3.75m
	Two lane Without -> 7.0m
2 200	Kerb 102 1 100
7.10	Two lane with 7.5m
	kerb
	Internidate > 5.5 m
	Carnage way
	NATIONAL AND
	Multi-Mane pavements 3.5 m/sland
*	Shoulder: - nun with 2.8m len two
	Shoulder: nin with 2.8m fen two
- <b>&gt;</b>	The portion of the wood blus the outerage
	vian of the pavement & edge of top
	Audard of embankment up knows at
	Shoulder
A	Should to nough surface.

	DATE
	Objective af shoulder
· · · · · · · · · · · · · · · · · · ·	Shoulder act as survey lane for
	break down vehicle
<del>`</del>	Shoulder act as some service lane for break down vehicle. They provide latual stability to the
<del>-&gt;</del>	They serve as a parking place in core of
	emergency.
<u> </u>	and the second s
<del>X</del>	Road way width / formation width  12m width For state nahm highway (two law) Sum of width of carriage way and shoulder
	12m width Pan State nation hymning true lave
	Sum of width of carriage way and shoulder
*	Right of way [land width (ROW)
	you whalm
<del>-</del>	Is the width of land arguined for the
	road
· · · · · · · · · · · · · · · · · · ·	margin + Shoulder + carnage way -> ROW
<b>/</b>	Road Margin
7	the portion of land width on either side of the road way are known as broad margin
	the troad way are known as broad margin
<del></del>	
3140	Berm
<del></del>	
	The portion of land wicth lift in blu the
	toe of vicable mbankment and Innerage
· :	of side drain.
	The state of the s

•	
	Page No
***	Syllabus
· · · · · · · · · · · · · · · · · · ·	Defination
2	Elemente
3	Evolution of Urban Design Theory of Urban Design Urban Design Theorist - F Books
<u> </u>	Theory of Urban Design
<u>5</u>	Urban Nesign Theorist - Books
· · ·	- Theory
<u> </u>	Urban Conservation - AMSAR Act
:	- Organisation
7	Tools and principle of Urban Design Theory of Broxenies
8	Theory of Kroxenies.
	URBAN DESIGN
	UNDAN PESIGN
<u> </u>	1 1 10 1 c 0/0 0 1 AD
= =	The and of Creating & shaping ceters & town. Oh
0	It is the process of giving form shape &
	Character to group of building on the whole
<del>-</del>	The art of creating & shaping coties & town. OR It is the process of giving form shape & character to group of building on the whole neighbourhood & the city.
*	It operates at two scales -
•	Macro-Scale - Urban Structure is decided.
7	THE WILLIAM STANCTURE IS OUTCOOK.
9	Micro- Scale - Stroot lighting & street lines
	Micro-Scale - Street lighting & street furniture is decided.
	W. G.C.C.C.
	P.T.O
*-	·
	w.

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Page No. \_\_\_\_\_

*	Flement of CoD [Urban form Macro to Micro)
	Urban Structure 7 - Urban Farm
	Density + Mix - Scale/Intensity of Development
<del></del>	Massing + Height  Street scape + Landscape Public Realm/ Facade + Interface Street scape Design.
بـ — —	Street scape + Landscape Public Kealm/
<del>_</del>	Facade + Interface Street scape Design.
<del></del>	Detoik + Materials
<del>_</del>	Some other relement of U.D  I Environment, topography
	2 Lacial Labric
	3 Economic fabric
	y Landscape.
<u></u>	Public Roalm -> It refers to all the areas to which
	public has excess like road, street,
	park, beidges, open spaces.
	part to the factor of the fact
	Delinations
	1 Usban Structure - The overall frame work of a
	relationship blu zones of built form, land form, natural environments, activities & open
	relationship blw zones of built form, land
	form, natural environments, activitées à open
	Spaces.
	i) Urban Grain - The balance of open space to built
	is Urban Grain > The balance of open space to built  form, and the nature and  extent of subdividing an area into smaller  parcels or blocks.
	extent of subdividing an area ento smaller
	parcels or blocks.

Page No
development &
ifferent uses (Such
<u> </u>
buildings in ight and floor surrounding land
lesign of public
ship of building to reet and neighboring undry treatment) und Mees facades and Materials)
<del></del>

(iii) Density + Mix - The intensity of idential, commercial, ensti Height + Massing - The scale of relation to he area, and how they relate forms, buildings and streets (V) Streetscape + Landscape - The d open spaces and pathways (Vi) Facadet Interface > The relation: building (alégnment, set backs, boi C'projections, openings, patterns a (vii) Details + Materials - The close-up appearance.
It includes street furniture, paving lighting and sign-age. Public-Realm - Much of urban design is concerned publicly used space (also referred to as the public realm or public domain) and the way îlt this is experienced and used.

Page No.					
Date					

	Date
	1 1 E in 1 - The natural
<u>B</u>	Topography, Landscape And Environment: The natural environment
	la disser water
	includes the topography of renafting natural of
	courses, flora and fauna. Decent
	includes the topography of landforms, water courses, flora and fauna whether natural or introduced.
	folia The non-physical aspects
<u> </u>	Social + Economic fabric - The non-physical aspects  of the urban form
<u> </u>	Lil acial factors ( Sulture, participation
	which and well-being) as well as the productive
	which enclude social factors ( Sulture, participation health and well-being) as well as the productive capacity and economic prosperity of a community
	Capacity and seems
<u> </u>	Scale - The size and perception of a building and
	Spaces
	72
#	Objectives [Why Urban Design]?
	1) Legibility > A clear and simple development  pattern within a city and neighborhood  enables residents and visitors to understand how an  area is organized and to make their way around
(	1) Legibility > A clear and simple development
ŧ.	pattern within a city and hawan
	enables residents and Visitars to understand vaccound
	area is organized and to make out
	an al 1 1 1 100 in all can identify a
	Charater > A recognizable images can identify a city or neighborhood to its residents or visitors. This image can includes historic building with a distinct gs, village precents, and building with a distinct architecture, public art and public spaces lk.
	The The succes can include historic building
	on Visitors. The free and building with a distinct
	- gs, vinage public art and bublic spaces lko
	OKWO CAWA , prosecular states and a state of the state of
	(1911) Nivercity & Successful neighborhoods within a
	City provide for diversity and choice
	through a nix of compatible housing and building
	(iii) Divercity & Successful neighborhoods within a city provide for diversity and choice through a neix of compatible housing and building types and land uses.

• • •