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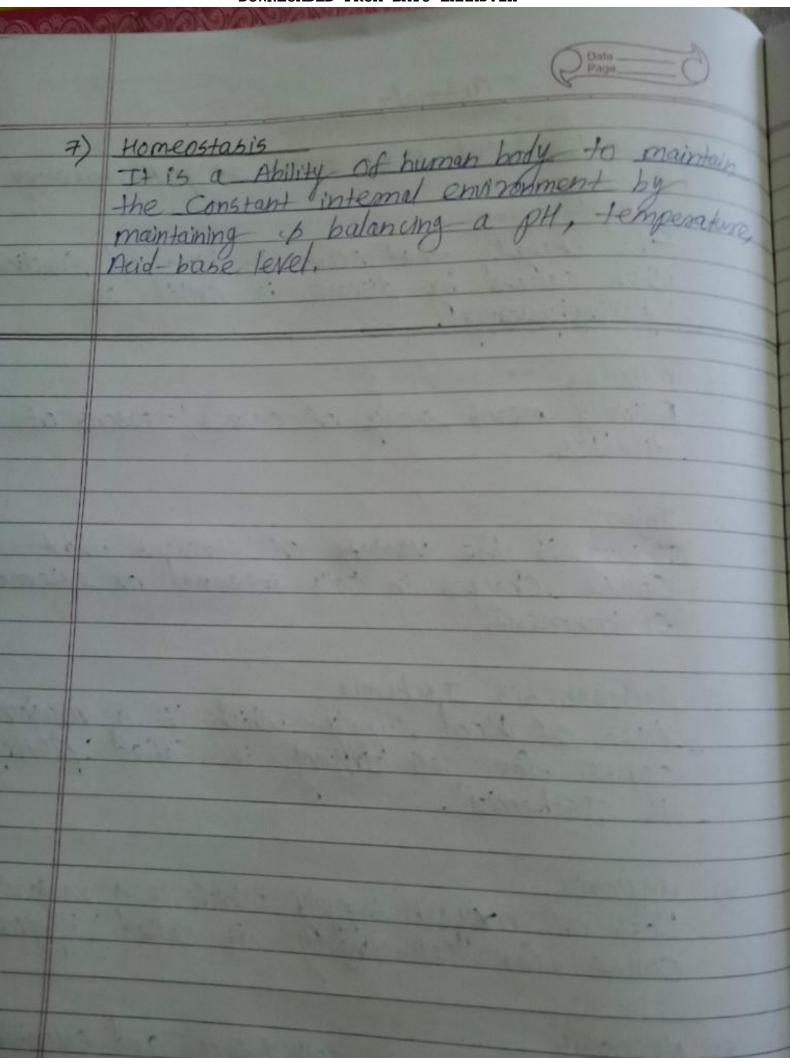
## at MET Bhujbal Knowledege City

Pharmaceutical Organic Chemistry I Department

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100	92 91
	Tutonial-2
1	Introduction to basic terms of pathophysiology  Dathophysiology
1	Pathophysiology
	The changes that occur in biological function pathophysiology.  The pathophysiology disease is collect as
2)	Etiology  Chiology
	Etiology means study of causes   reasons of diseases.
3)	Injury is the variety of stresses that Course Charges in cells internal or external environment.
-4)	pathogenesis Ischemia loss of blood supply which is a major cause for cell trying is called pathogene- sis Ischemia!
5)	Hypoxia Loss of oxygen supply which is a major Cause for cell Triving is called Hypoxia.
6)	Necrosis  It is Inveversible cell Enjury and eventual  cell death due to pathological processes are  termed as 'Necrosis'.



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	Tulondo 2 Ome O
	Tutonal-3
*	Give Detail about:
	Atrophy.
1	Atrophy is devrease in cell size due -10
	2065 100 (11) 51181410 100
21	Atropic cells are living although they function.
	as sub-normal level,
3)	Cellular atomu causa 1 's and i
	Catropy of organ,
4)	the 5 timuli causing organ atropy are some
	that cause apoptosis, therefore, organ
	catropy of organ].  The stimuli causing organ atropy are some that cause apoptosis therefore, organ atropy is the Josal outcome of cellular atropy & apoptosis
5)	Like apoptosis, atropy may be triggered by both physiologic as well as pathologic stimuli
	both physiologic as well as pathologic stimuli
	but both types of stimuli induce similar fundamental cellular changes.
1	Fundamental Cellular Changes.
2	the stimuli which may lead to strappy, include I work - load loss of innervations,
	include I work - loud, loss of inhervations,
	inschemia, inadequate nutrition, deficiency or
7)	ack of of endocrine secretion & aging.
7	nechanistically, atropy may results from.
	mbalance of protein synthesis & breakdown. Thus, reduce, protein synthesis & incensed
	Thus, reduce protein symmesis & incensed
1	notein breakdown may cause atropy
12	individually or together.
*	nvolved in cellwar atrophy.
	nvolved in cellwar atrophy.
4)	Deficiency of homones, which promote
P	notein ahabolism & excess of cetabolic
1	normones, which promote protein anabolism

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NA		3	9:
100			
1	bigh tion pressure - seg. of pathologic	5	8
70	The stimuli that ingger typerstropy are	-	
1	1 Functional demand (work-load) of excessive	5	
1	stimulation by tropic normones.		
(8)	-trophic hormones act by 1 rate of transcrip-	-	
1	from of genes, thereby of protein synthesis,	2	1
1	binding to specific Cytoplasmic or nuclear		4
1	receptors.	-	
- 91	In Functional demand Clike Hypertension &	6	8
1	muscular exercise) exerts stretch on muscle,	4	1
	which act as mechanical trigger dor	15	1
	activation of one or more genes.	7	4
10)	The result is I synthesis of proteins, Cytoskeletal elements & organelles leading		1
	Cytoskeletal elements & organelles leading	36	
- 113	to hypertrophy.	90	
- ")	In hypertensive myocardial hypertrophy apart		
	trigger is also involved.	25	
12)	the mechanical trigger somehow activates		
7	A - advenergic receptors, which seem to		
	play role in resulting hyperstrophy.	1	
			<b>Y</b>
111	Hyperplasia		
1)	P in No of cells in tissue or organ		5
	is called 'Hyperplasia!		_
2)	Hyperplosia - also 1 organ size, but Unlike		16
1	Hyperplasia - also 1 organ size, but Unlike Hypertrophy, there is no 1 in cell size, Hyperplasia is closely related to hypertrophy		
-	Hyperplasia is closely related to hypertrophy		
-	& two often occur Concurrently,		
		TO THE	

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Q Dato Page C	
3) the end result of both is I in size of	
3) the end result of both is it may also be lissue or organi typerplasia may also be	12
NOTES STATES	
-1135425 COM Word hased on the	iv),
inger, Homena of homene.	
A TOTAL DATE THE PARTY OF THE P	100
hormond hunemlasta	2)
Removal of possion of tissue also act as	W. Carlo
Removal of possion of tissue also act as a powerful trigger for hyperplasia. This type of Hyperplasia is called compensatory Hyperplasia!	3
8) partial hepatectomy this gens proliferation of	
8) partial hepatectomy triggers proliferation of hepatocytes, which restores lives weight to	
2) Residual parenchymal Cells & perhaph other	
Residual garrenchymal cells & perhaps other  cells release some polypeptide growth Factors,  which stimulate mitosis that restores liver	
weight mouth mitosis that restones liver	
10) once purenchymal mass is restored a different set of polypeptide growth inhibitors turn the proliferation off.	
inhibitors turn the proliferation and	
11). Pathologic hypeoplasia may also be involved	
different However humanish get out	
In Caminagenesis (if proliferation get out dissevent from neoplasia in that former parally appearance	1
Yemains controlled & gradually suppressed	1

			19-0
	Maria	Q Date	9:
	12)	due to declining supply of inzgering homore or growth Factor.  Proliferation of Fibroblasts of angiogenesis in process of wound healing, is another e.g. of pathologic Hyperplasta.	8
tion.	N)	metaplasia  It is reversible change, In which one differentiated cell type Cepithelial or mesenchymal) is replaced by another cell type.	
5	3)	Mechanism:  Due to Reprogramming of precursor cells,  present in normal tissues,  Differentiation into new cell lineage,  By signals generated by Various cytokines, growth	3
5,	4)	in the cells environment.  Metoplasia	
+++	1, 3	squarnous metaplasia 1.055e ous metaplasia Branchus Arterial wall	
1111	2.0	Uterine Cervix. Myositis Ossificans. Gall blacker stroma of tumour. Renal pelvis cartilage of largox in olumnar metaplasia extent.	45
	1.	Barroett's esophagus 2. Cartilogeous metaplasia. Intestinal p gastric Healing of Fractures. Metaplasia.	



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