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	what is cell? (ANIMAL CELL)
	Cell is the basic membrane bound unit that contains the jurda- mental molecules of life and of which all living things are compared. A single cell is often a complete organism in itself such as yest. Other cells acquire specialized functions as they meture. These cells cooperate with other specialized cells and become the building stocks of large multicollular organisms, such as humans.
	what is a cell composed of?
1.	CELL / PLASMA MEMBRANE: The outenmost layor of the living cell that gives structure & shape in the cell membrane. The chief function is to regulate the passage of materials into and exit of the cell. Initial structural studies using electron microscope revealed that it consists of irrier & outer dense protein layor enclosing a less dense phospolipid layors. The flexibility of the cell membrane also enables the cell to engulf in food. ANIMAL CELL ANIMAL CELL ANIMAL CELL Smooth ER Nucleus Nucleus
	Mitechambers

2. NUCLEUS AND NUCLEOLUS:	11
The state of the s	- F 1
The state of the s	eer
The nucleus is a ground/oval body lying in the centre of the contract members and level by a ground oval body lying in the centre of the centr	ane 1
enclosed by a double membrane known as the nuclear membrane of the nuclear envelope is	-
on simplement The nation mountinance of the nuclear enveloper	
or envelope. The outer membrane of the nuclear envelope is	_
continuous with the endoplasmic reticulum & thus, facilitate	
the passage of materials from the nucleus directly into the	
channels of endoplasmic reticulum	
	re
dense bodies containing the Sub-units for the subosomes, the	,
dense bodies containing the Sub-units for the sub-units for	Fig
cytoplasmic organiles involved in the synthesis of priotein. T	CU .
the substant in the assembly & senthesis of subosomes	
nucleous is involved in an association activist is a prom	osomer
nucleolus is involved in the assembly & synthesis of subosomes. The nucleus is the stroubouse of the genetic material i.e. chrom	-
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7 600 - Nucleus pere	4
(1 800000 -	
J. Charles II armani	-
Page 18 1 committee	
Complete Amelender	
- Rivelear	-
invelope	
the late of the second	
	1
3. CHTOSKELETON:	_
at is a cellular 'skeltlon contained within the cytoplasm & i	
made of postein. It has structioner such as flagella, cilia e	
lamolt involve & stand and the stand of the	-
lamellipodia & plays important roles in both intracellular	1
transport & cell division	
	-
4 CENTRIOLES:	- 1
There are moret	
These are present as pair of cylindrical mods. They lies above the	
nuclear membrane and are in a form of a cross They play a no	2
SOUTH ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	6
win the formation of the speciale apparatus which is essential	Lac
both mitosis and meiosis	grey

	All Thereton and
_5	MITOCHONDRIA:
	St is referred to as the Powerhouse of the cell. These are mounded or long
	THE PARTY OF THE P
	metalolic activity. They have a double wall an outer smooth membranet
	which lown the curton foundament and will an outer structure
	which forms the outer boundary and inner membrane which is
	extensively folded. Their folds have a variety of enzymer embedded
	in them. They are responsible for the breakdown of sugar molecules to release ATP. The mitochondona contains its own DNA & rebosomes
	to receive ATP the nutrochondoria contains its own DNA & reposemes
6.	ENDOPLASMIC RETICULUM (ER):
	The endoplesmic reticulum is a large network of mendrane-bound tubes
-	and sheets. It looks like long tubules on round on oblong bags. The
	ER membrane to similar in structure to the plasma membrane. These are
	two-types of ER - Rough ER (RER) and smooth ER (SER).
	RER books mough under a nucrospope because it has particles called
	Substances attached to its surface. The substances, which are present in
	all active cells are the sites of protein manufacture. The manufactured
	wanter as the rest was our place of the set town die a set
	prioteins are then sent various places in the cell depending on need,
-	using the DR The SER Repris in the manufacture of fat milecules, or
-	upids important for all function. Some of these prioteins and
	lipids help in building the cell membrane. This process is known
	as metabrane biogentsis, some other proteins and lipids function
	as enzymes & hormones Although ER varies greatly in appearance
	in different cells. It always forms a network system. The CRalso
	functions as a cytoplasmic framework providing a surface for
	some of the biochemical activities of the cell. The SER plays a
	would note in deterribilities many passens & deleas in the Owen
	crucial role is detoxifying many poisons & dougs is the liver
	cells of animals mulature
	Nachtus
	- Michael Della Committee
	ACR LA SCORLEGE



