Eukanyotic cells compartmentalisation of cytoplasm nuclear envelope complex Stouctures · Intermediate flament

All certargotic cells are not identical.

feature plant cell Animal cell

plastids the re.

centoiole re(mosty) the.

cell wall the re

large central valuable the re.

components of protoplaste plasmamem bours. Nucleus cytoplasmic cytosol. membrane single double membrane bound mito chondria

nlote:

Centrollome: \*\* nonmembrane bound organelle.

\*\* found in animal cells. and abjent in dimorr

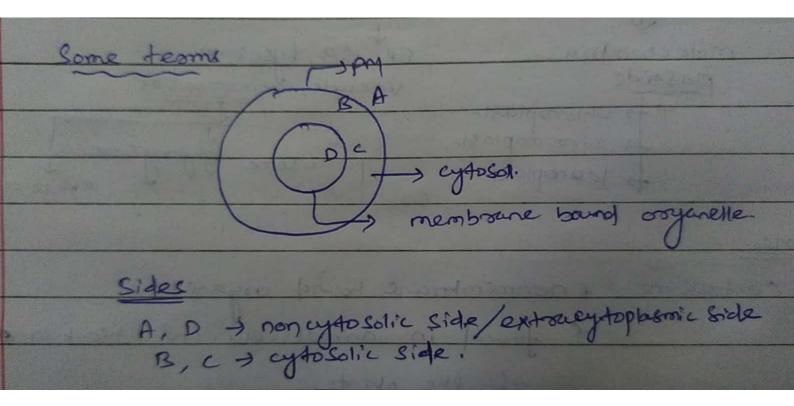
of the plants

\*\* procedur in some plant cells (flagellated)

algae, Boyophytes,

pteroidophytes.

Plasmamembrane (PM) called plasmalemona, cell membrane. Occurence - all types of cells (PK+EK) PM of PK and EK is structurally similar living, dynamic, asymmetroic, quasifluid, elastic After advent of et microtrope in 19501. · Source of fm -> human RBC. chemical study of pm -> lipid of prootein Biochemical study > PM -> lipid Mote. Biomembrane of all membranes of a cell.



Chemical composition of PM

Chemically PM > lipids + proteins + carsohydrate

y major

Components

Components

Components

warsiable

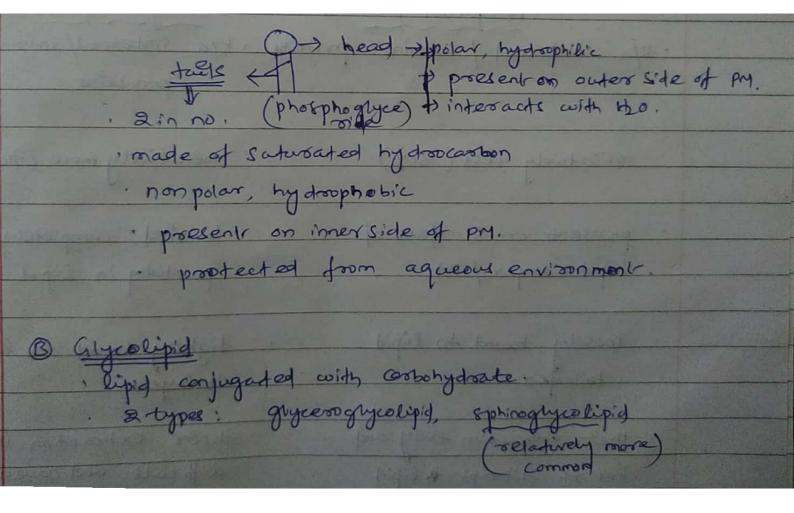
y in human RBC

PM -> STRY: 401/
(porter) (upid).

polar and nonpolar properties. head Apolar, hydrophilic

proesent on outer side of pm.

egypee) to interacts with the. nonpolar, hydrophebic



Ex PM -> Sterrol -> -ve Exception -> mycoplasma

Cholesterol +ve

Ex PM -> Sterrol -> +ve.

L) Animal cell -> Cholesterol.

fungale cell -> Cholesterol.

plant cell -> Stigmasterol, Sitosterol, campesterol.

Note:

Cholesterol plays an important sole in maintaining the fluidity of PM

As per Neerol diagram cholesterol is situated on cytosolic side of PM.

PM problein
· Associated with lipid bilayer.
· Basis of classification > & sase of extraction
· 2 taypes
Persipheral prosteine integral prosteine
· K/a external / extrains's prostein · K/a internal/intolosis
proteins
The state of the s
· rollatively 1885 (30/.) rollatively more (70%)
ainted polymetric port and a sound of
lipid bilayer / pm. partially in lipid bilayer.
present on surface of bursted completely or lipid bilayer.  partially in lipid bilayer.
- loosely bound to lipid . tightly bound to lipid
bilayer bound to lipid bilayers.
Total Control of the
· their extraction easy and · their extraction is
does not disroupt & lipid difficult and causes
bilayers. dissuption of lipid britager

