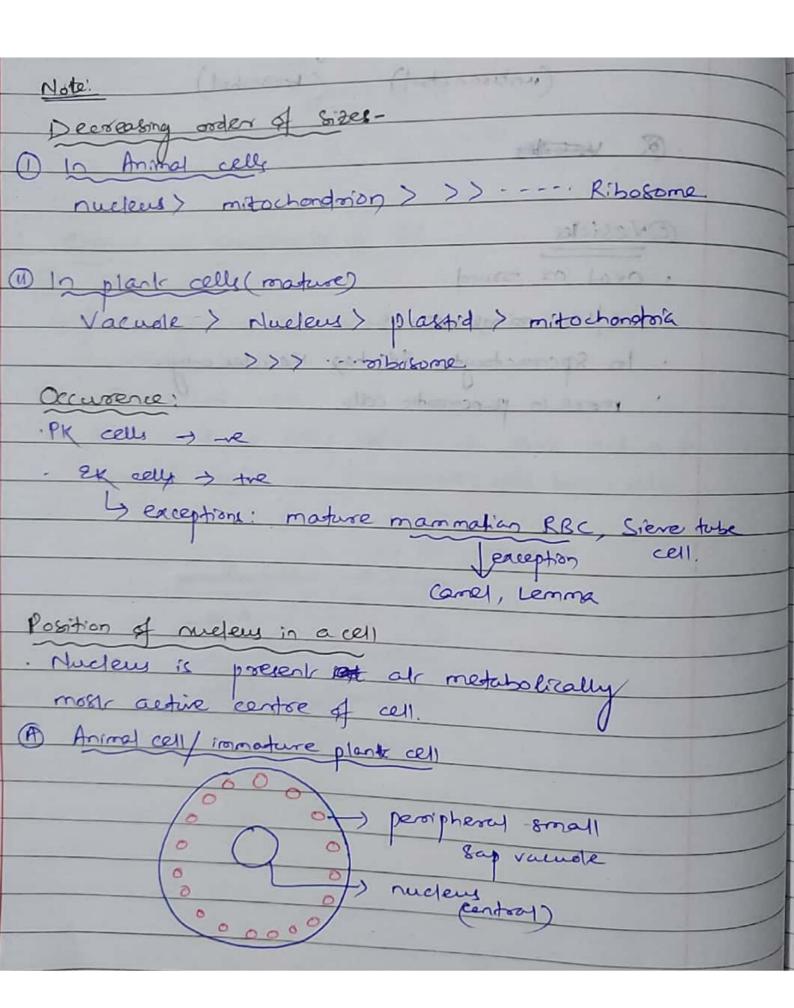
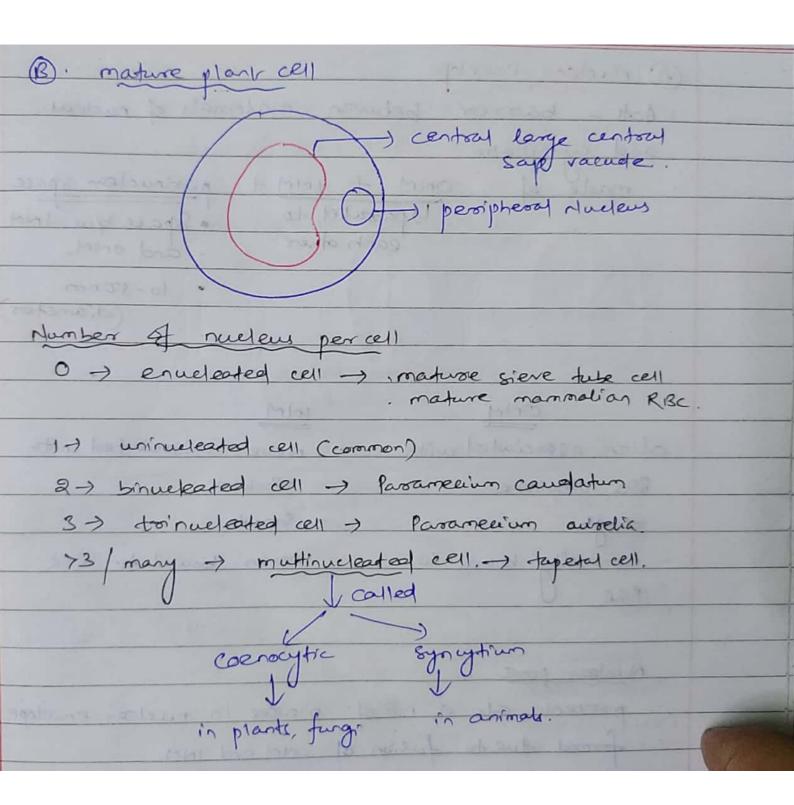
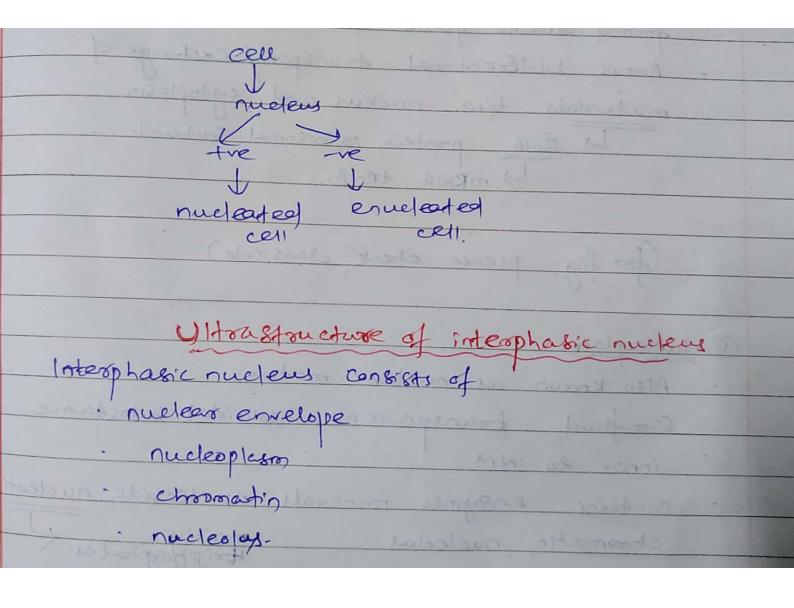
Nucleus · Discovery Robert Brown (1831) in root-celled Orchid master organelle, controller of cell. , · non cytopiasmic de extrauptoplasmic organelle.
· largest cell organelle in Animal cells. Decreasing order of Sizes-1) In Animal celly nucleus) mitochandrion > >> --- Ribosome 1) In plant celle (mature) Vacuale > Mueleus > plastid > mitochonotois >>> roibusome. Occurrence: · Ex celly is the 5 exceptions: majure mammation RBC, Sieve tubs cell. Carrel, Lemma







10-50nm (diameters) normally bound to RER , never bound to RER

Nuclear pore · present at a no of places in nuclear envelope. formed due to fusion of one and INM. - Allows bidEsceptional transport/ exchange of materials b/w nucleus and cytoplasm. Ly RNA, propher, sibosomal subunitr (for fig: please cheek class rute) @ Nucleoplasm Also known as nuclear madrix. constituid, transparent, colloidal substance containe enzymes, minerals, nucleoside, nucleotides, chromatin, nucleolus meninty to phosphates.

O chromatin Flemming (1879) chromatin is stained · ex- Acetocasionine. emical composition Historie Non historie · Some (number)

features eventormenting heterochromating

Cheering lightly stained darkly stained

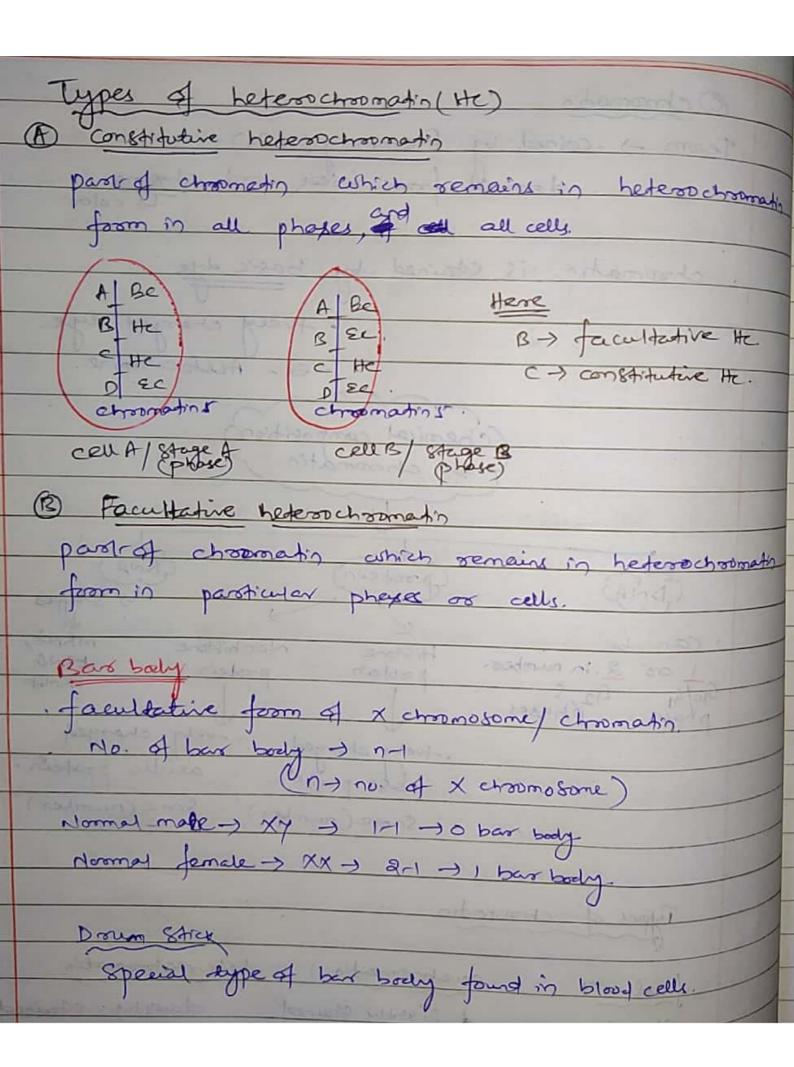
historic content less more

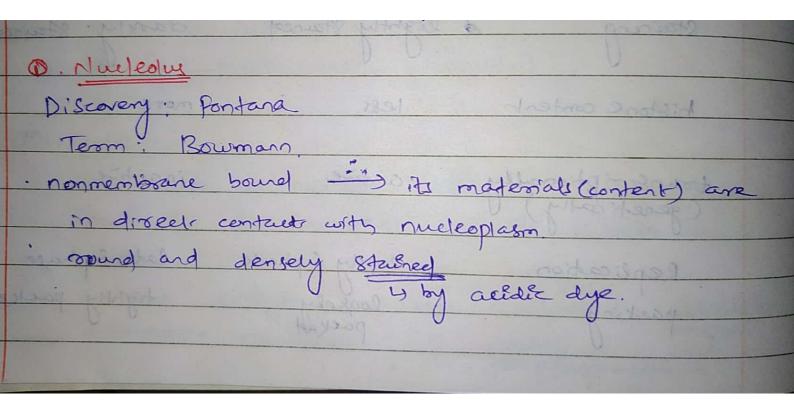
townscriptionally active inactive

(genetically)

Replication earry 5 phase late 5 phase

packing lookely packed





Bound to chromatin at NOR (nucleolar organiser region)

Number of nucleolus per nucleus

. I or >1

. depends on the amount of proofein synthesized

by call.

. more in althore cells that care actively involved

in proofein synthesis.

Punctions of nucleolus

Site of ornit and orbosomal suburily formation

except nucleolus

except or nucleolus

except of called

sibosome factory

