

Cell organelles

कोशिकांग

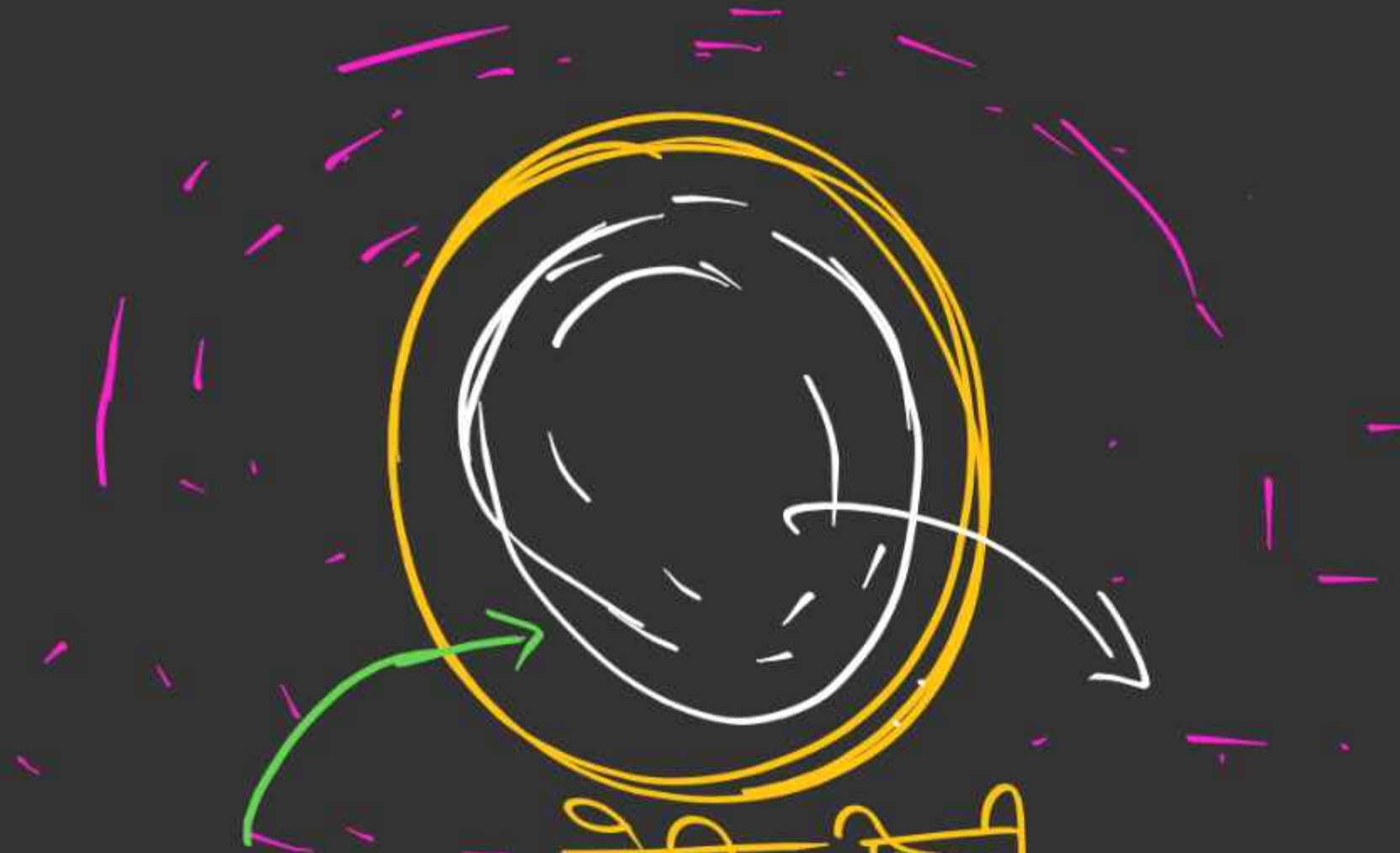
(2)

कोशिका झिल्ली
Cell membrane

कार्य →
function

कोशिका के अंदर तथा बाहर जाने वाले पदार्थों का चयन करना

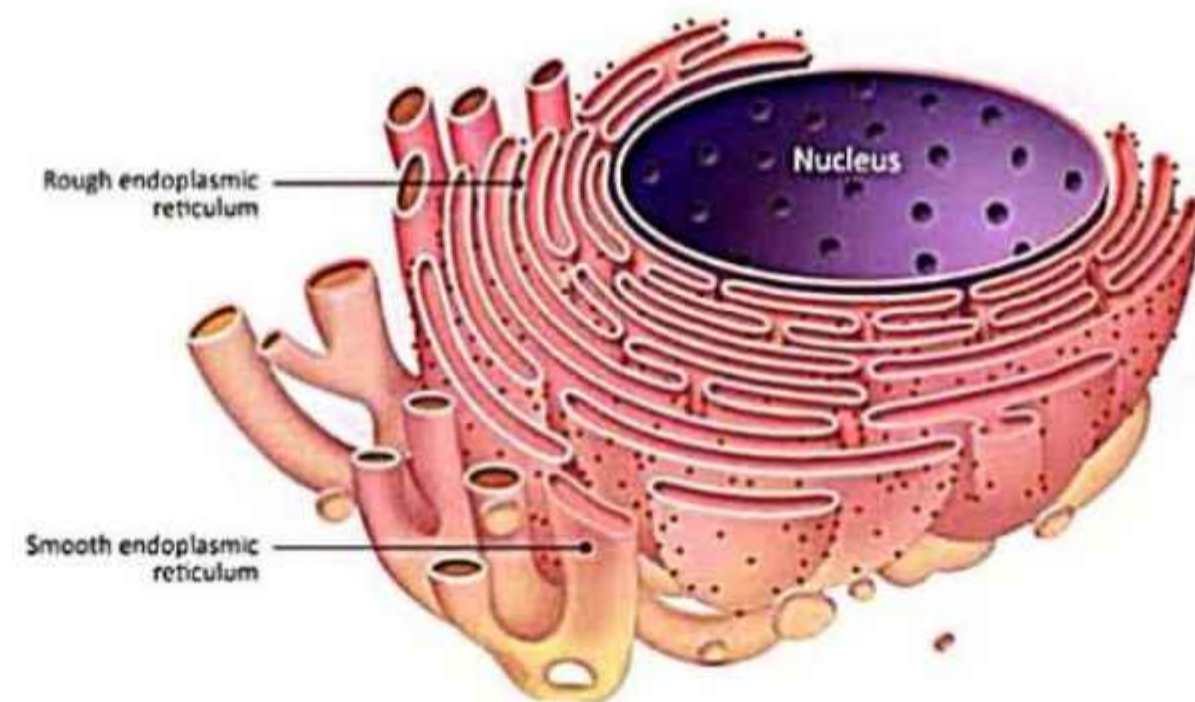
Selection of materials inside & out from the cell

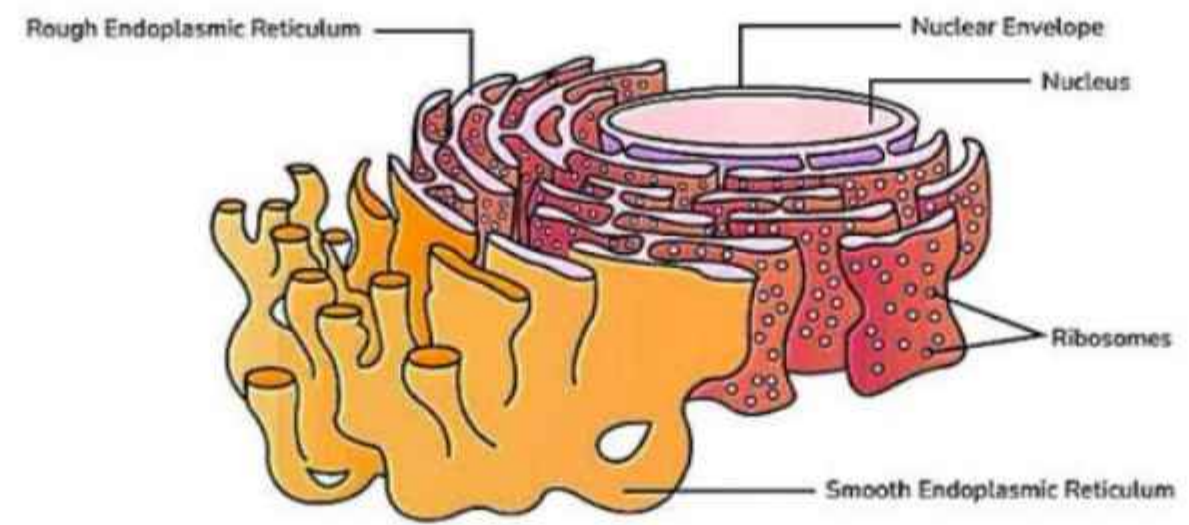


कोशिका झिल्ली

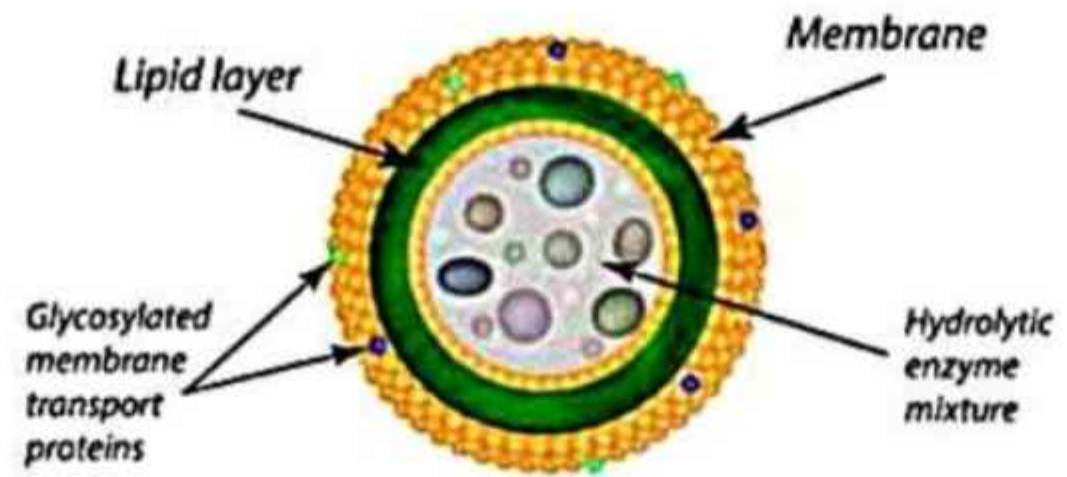
जल
Water

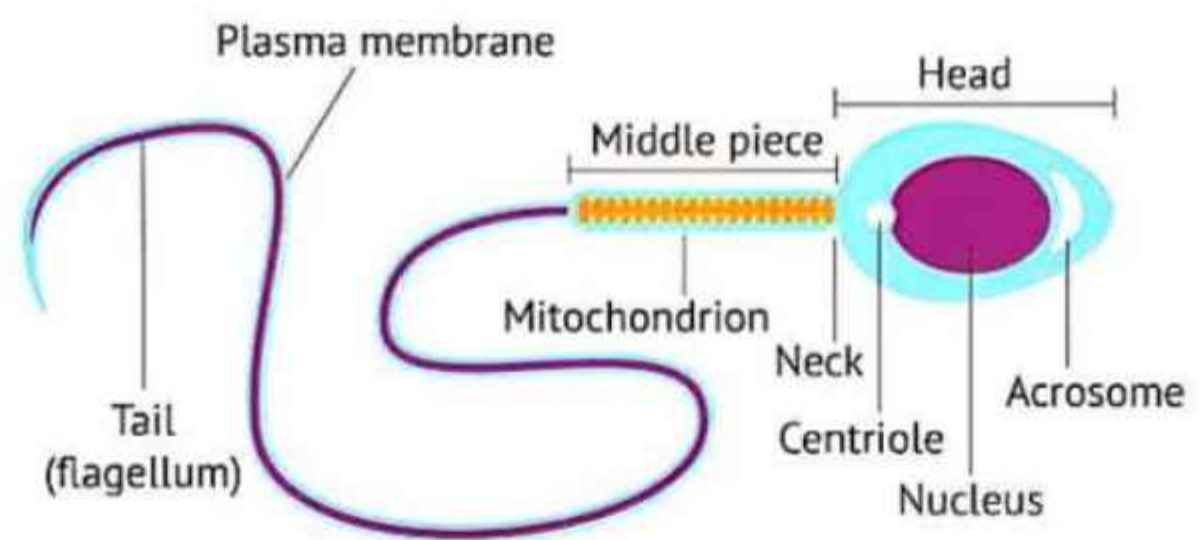
Cell membrane

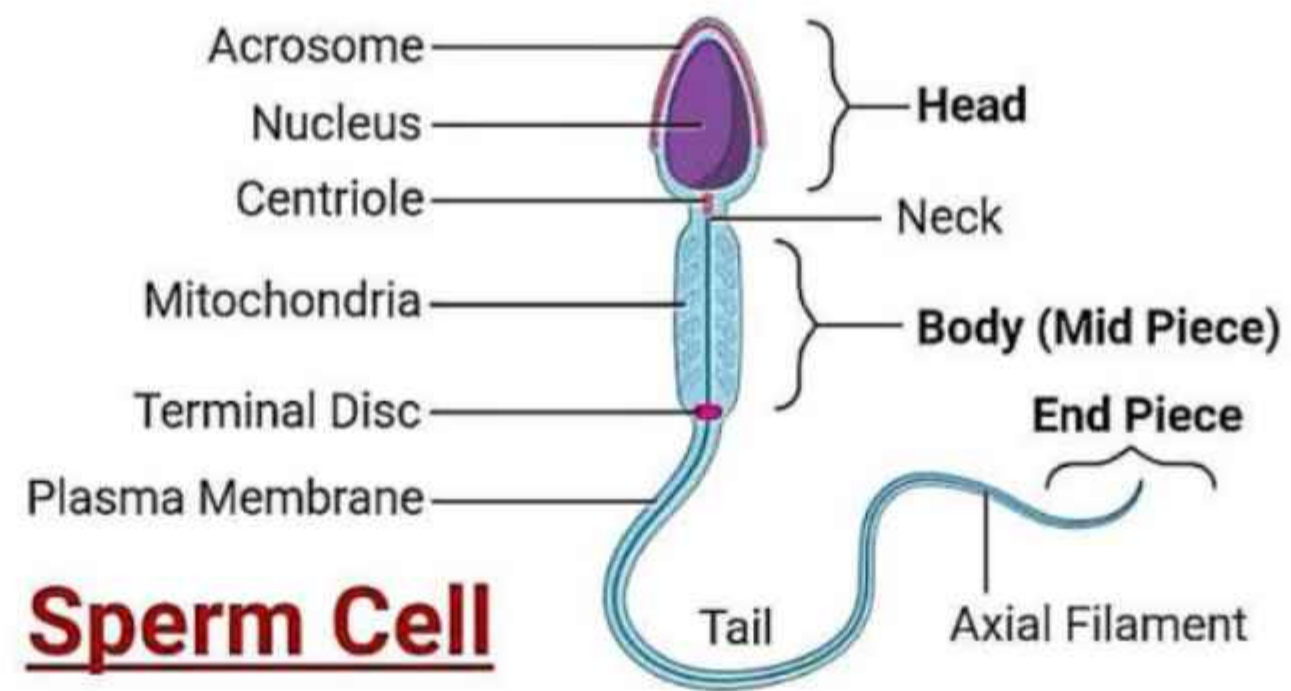


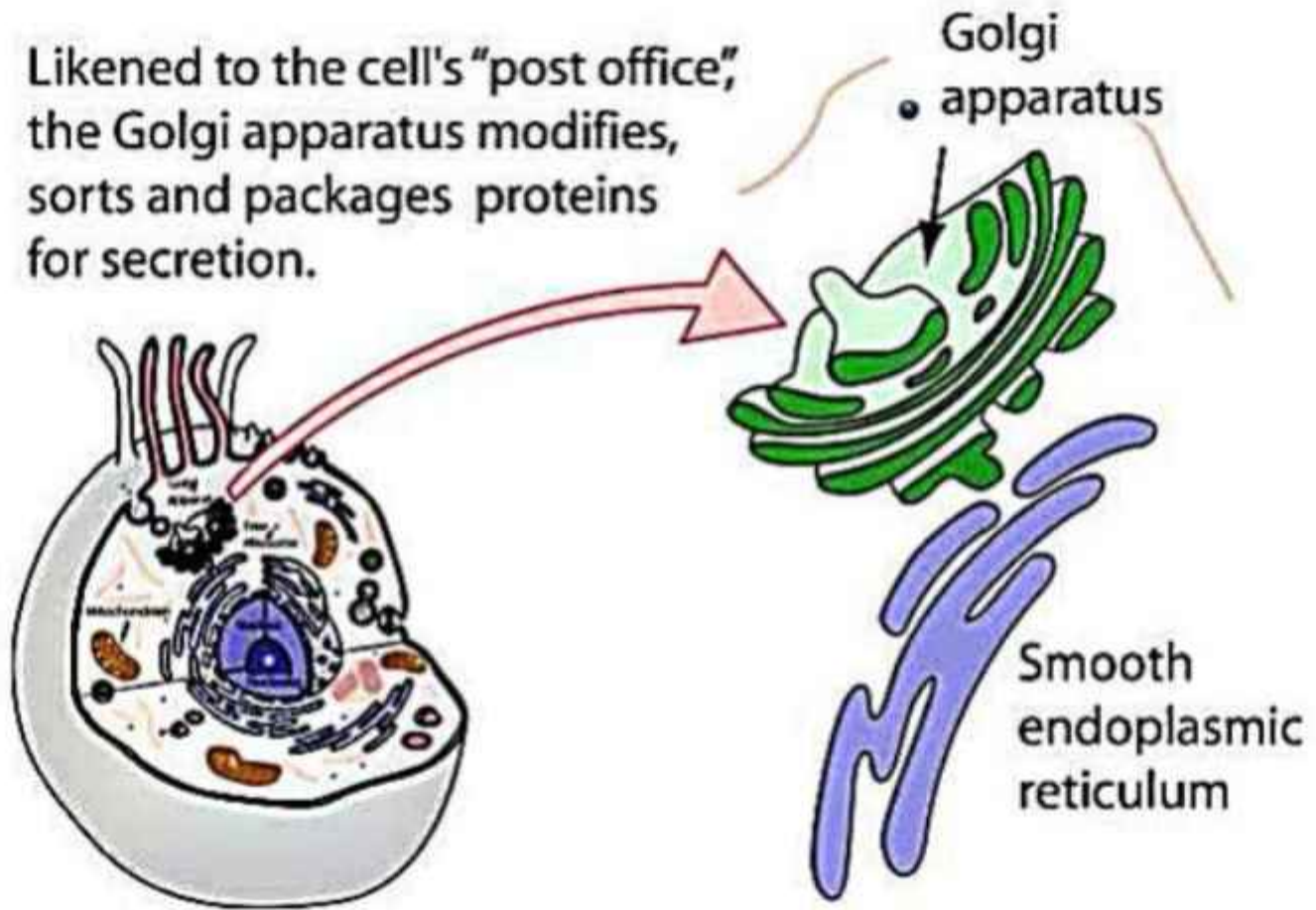


Lysosome



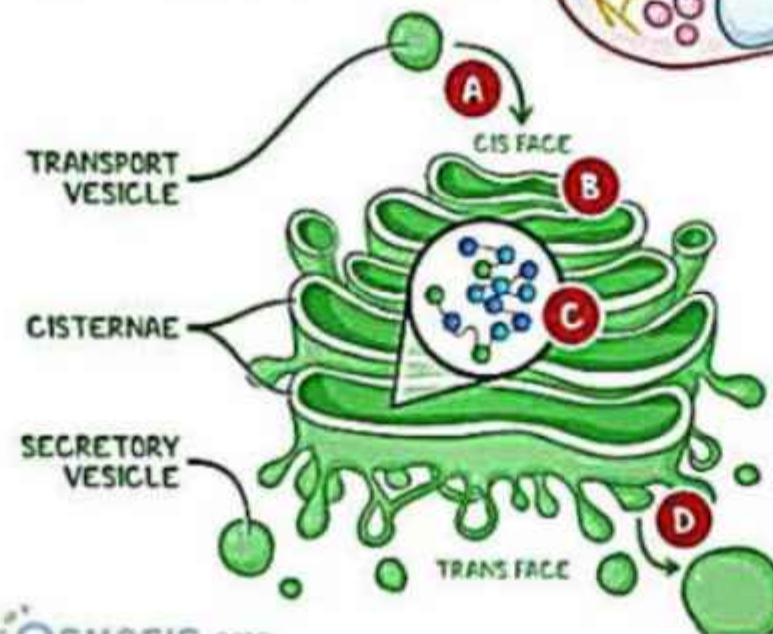
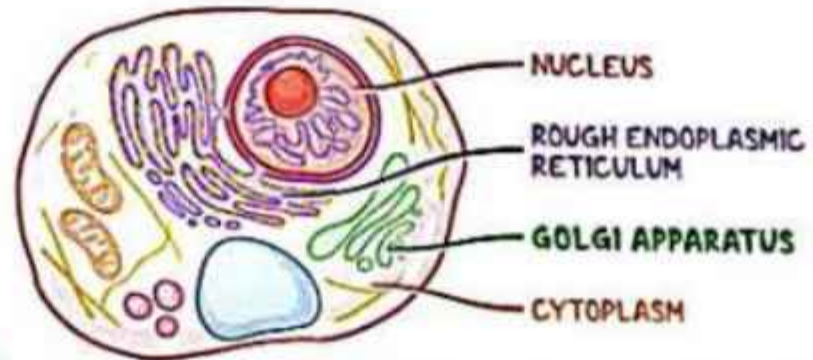






BACKGROUND

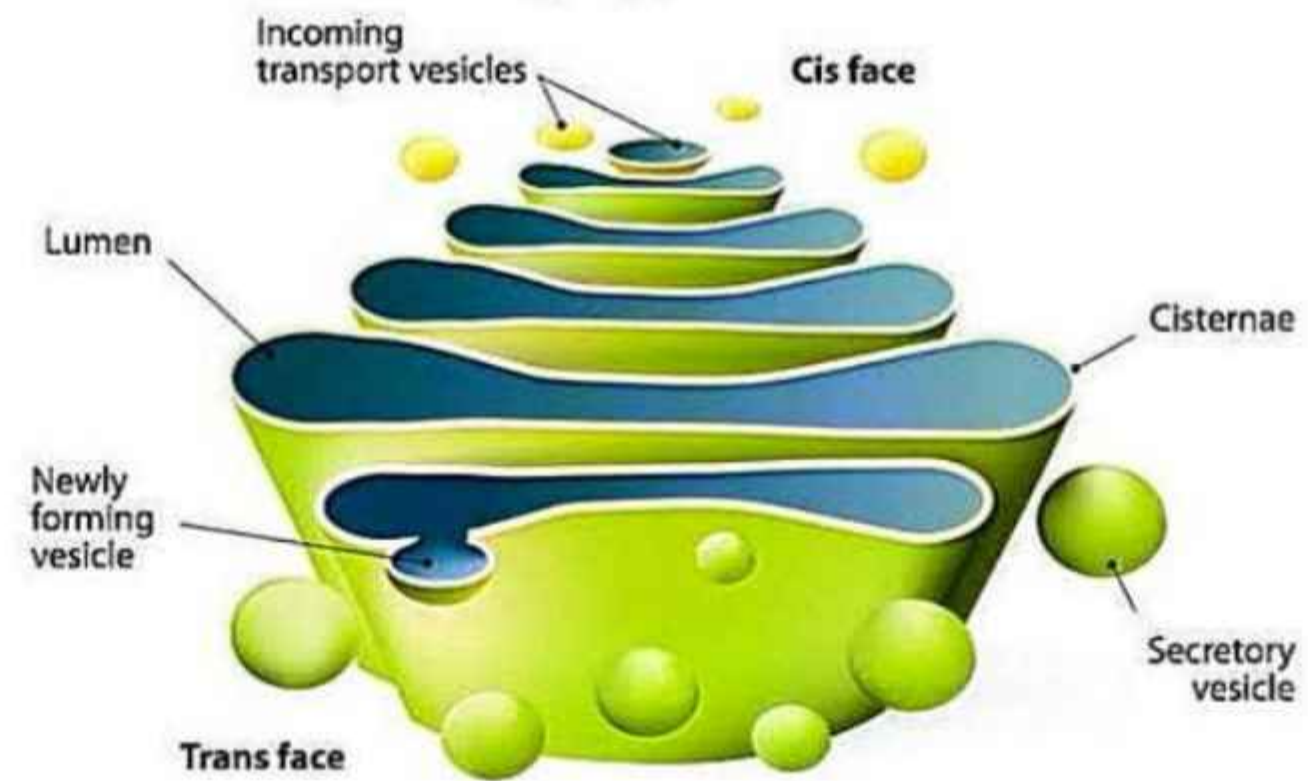
- TYPE of ORGANELLE in EUKARYOTIC CELLS
- PROCESSES & PACKAGES PROTEINS & LIPID MOLECULES
 - ↳ aka GOLGI BODY or COMPLEX



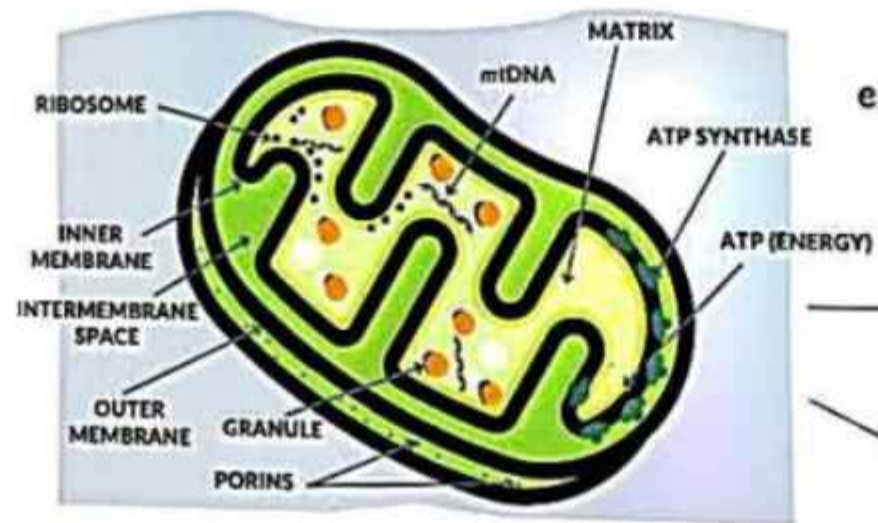
FUNCTION

- A** TRANSPORT VESICLES BRING MOLECULES from ROUGH ENDOPLASMIC RETICULUM
- B** MOLECULES FUSE with MEMBRANE & are SORTED BASED on DESTINATION
- C** MOLECULES UNDERGO REMODELING & MODIFICATIONS in CISTERNAE
- D** MODIFIED MOLECULES are SECRETED OUT of CELL or to ANOTHER ORGANELLE

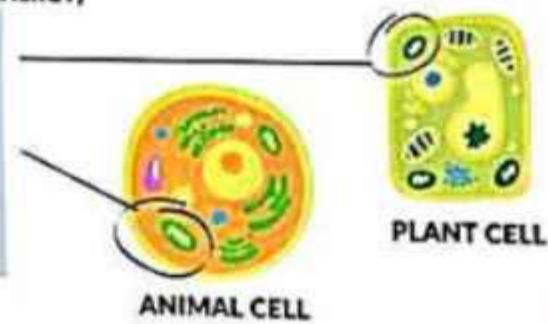
Golgi Apparatus



Mitochondrion



The mitochondrion is the organelle where chemical energy is produced through cellular respiration.

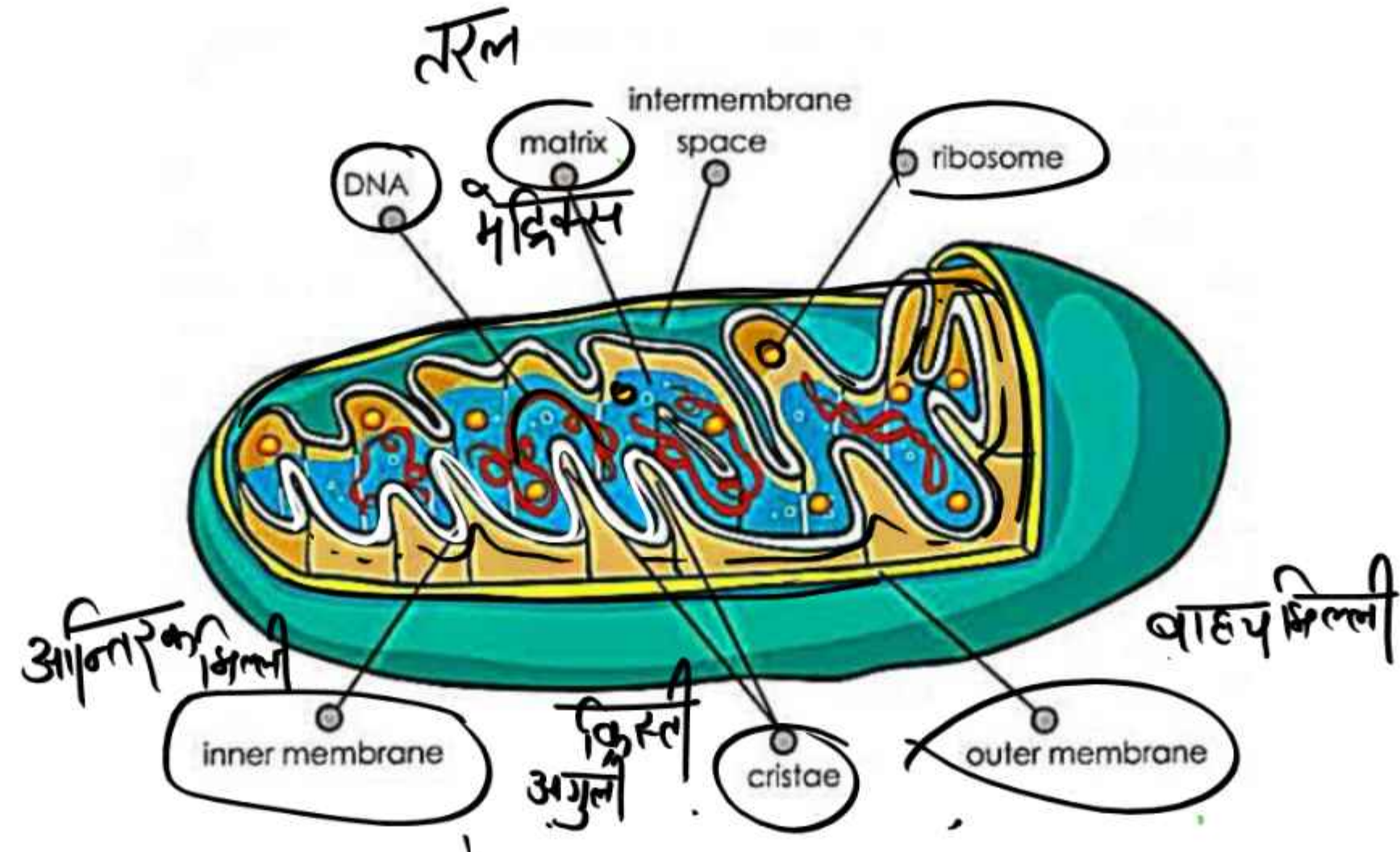


MITOCHONDRIA

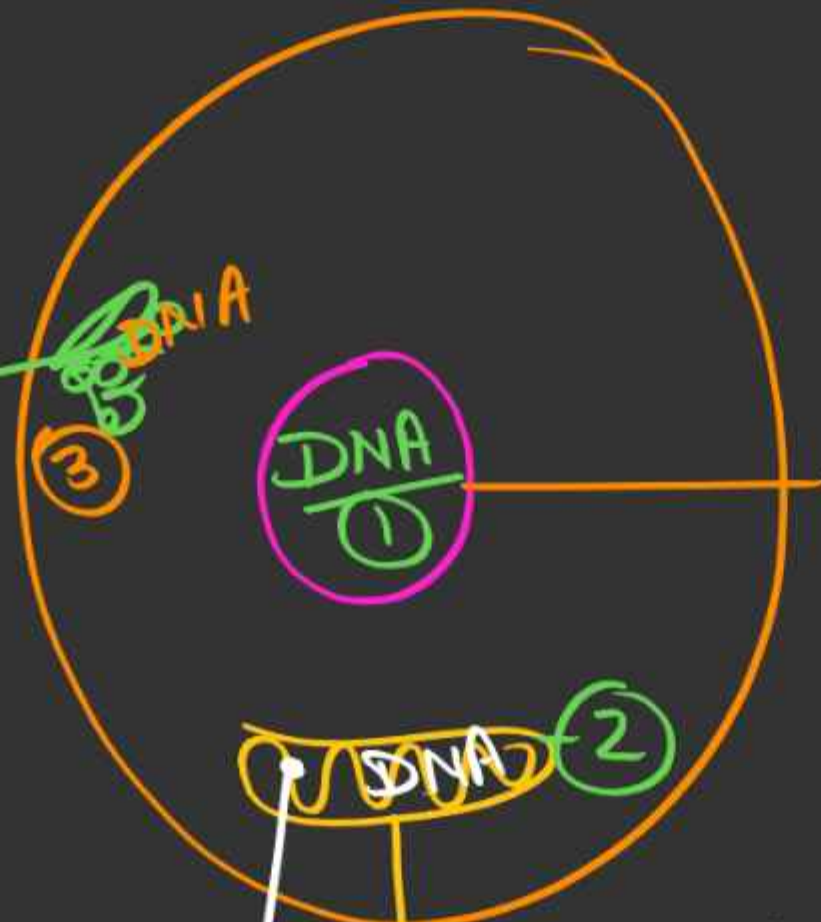
“Powerhouse of the Cell”

Mitochondria are eukaryotic organelles that make chemical energy via aerobic cellular respiration.





ER रeticulum
Chloroplast



Nucleus
केन्द्रक

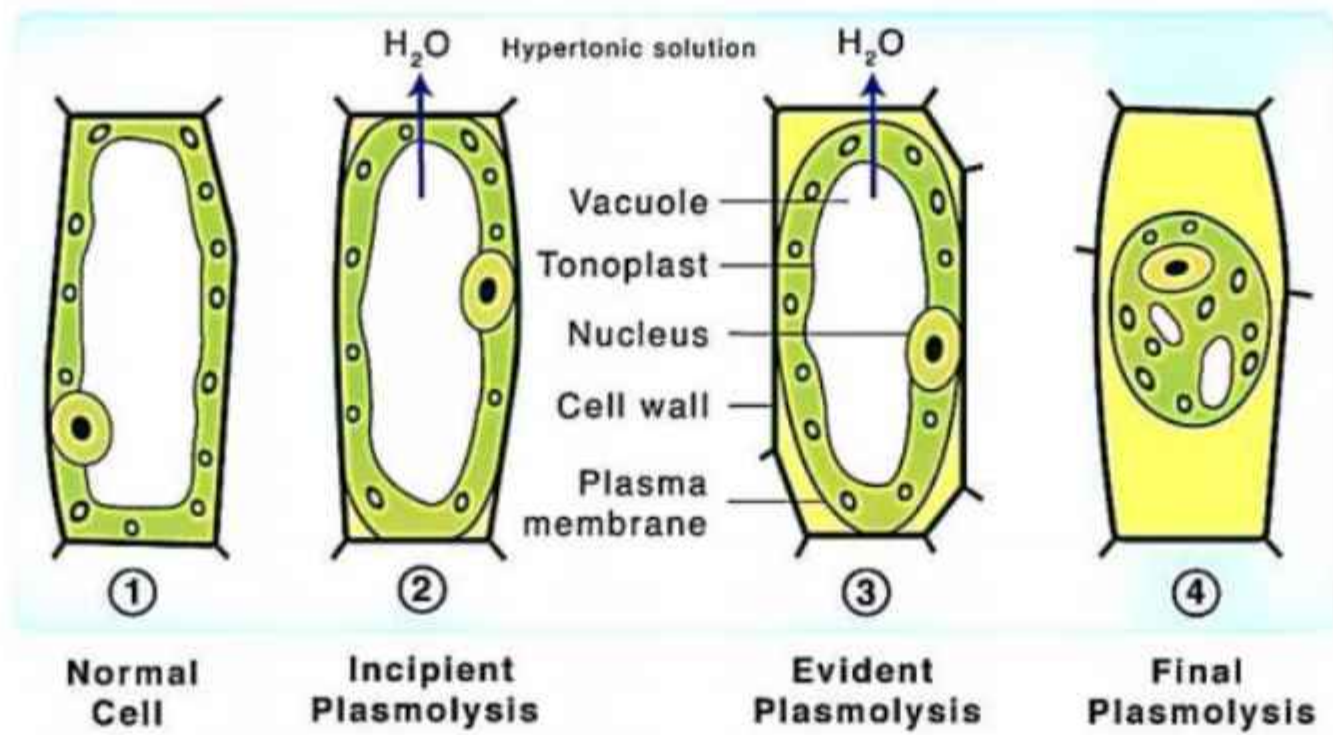
मुख्य DNA
Main DNA

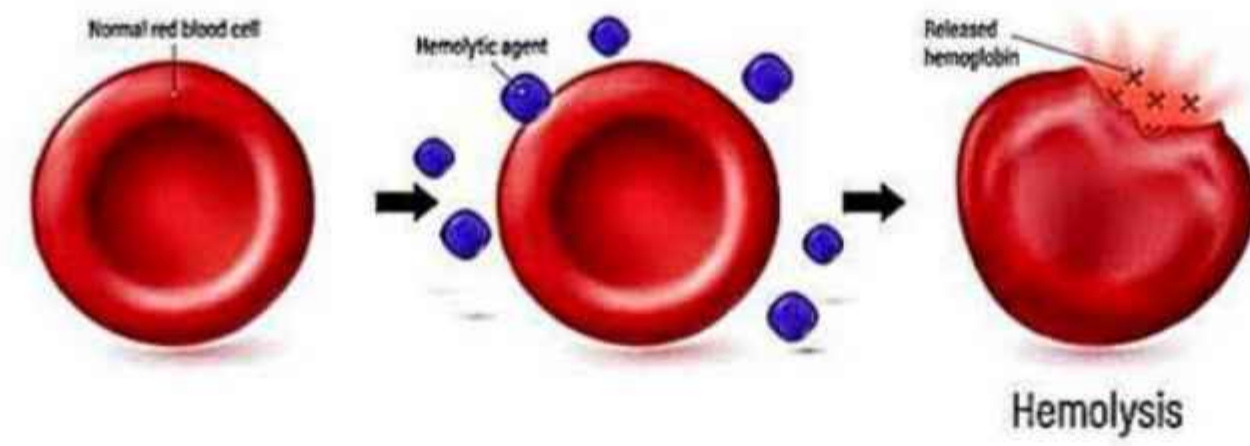
Ribosome
रिबोसोम

Mitochondria
सूत्रकीणिका

Stages of Plasmolysis

Science Facts





HEMOLYSIS



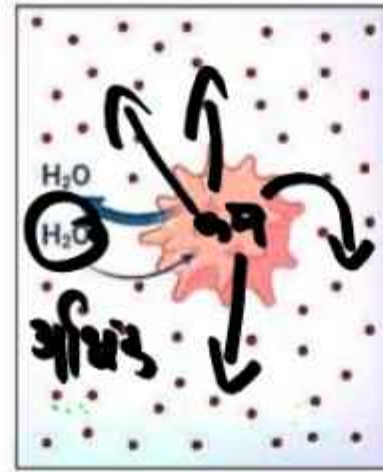
NORMAL
(healthy red
blood cell)



SPHEROCYTE
(sphere-shaped
red blood cell)

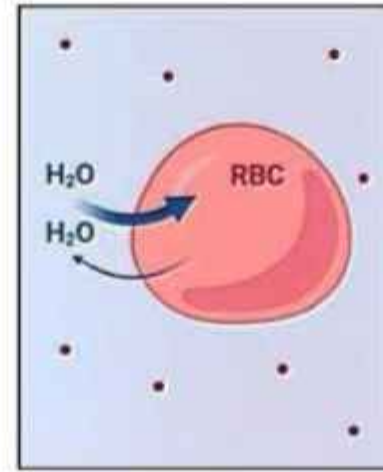


RUPTURING
(release of erythrocyte
contents into blood plasma)



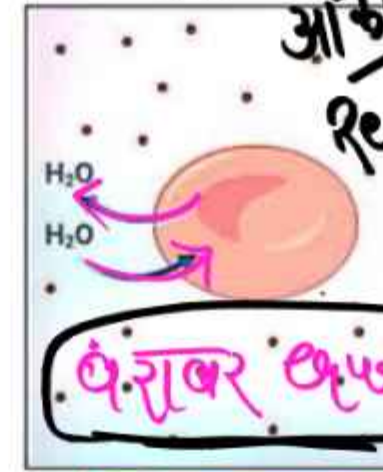
Hypertonic solution

अतिपरासरी विलयन



Hypotonic solution

अल्पपरासरी विलयन



Isotonic solution

समपरासरी विलयन

③ Mitochondrion सूतकीणिका

Muscles of Insects

1) खोज → कोलिकर Kolkow (कीली की पैरी)
Discovery

2) शब्द term → बिन्दा वेज

3) बिन्दा वेज का नाम → Altman आल्मैन

⇒ कोलिकर का ऊर्जा गृह कहते हैं
Known as power house of cell

⇒ A.T.P का संबंध सूत्रकीणका में होता है

A.T.P stored in mitochondria

A.T.P → ① Adenosine - tri - Phosphate
एडीनोसीन ट्राई-फॉस्फेट

→ ② कोशिका का ऊर्जा सिक्का कहते हैं।
Energy currency of cell
(ऊर्जा इकाई)
(Energy unit)

⇒ दोहरी झिल्लीनुमा कोशिकांग है
Double membrane organelle

⇒ सूतकीणिका में स्वयं का DNA तथा राइबोसोम पाये जाते हैं

Mitochondria have its own DNA & Ribosome

→ वायवीय श्वसन की क्रिया सूतकीणिका में होती है

Aerobic Respiration take place in Mitochondria

1) Hyper tonic
Solution

अधिक परसरी

विलयन

अति परसरी

विलयन



जैसा विलयन जिसकी सांद्रता कोशिका रस से अधिक होती है

Solutions which higher concentration by cell sap

सुकुट जाती

shrink

कोशिका Cell

कोशिका

रस

Cell sap



पानी H_2O

जीवद्रव्य कूपन
Plasmolysis

(2) अल्पपरसरी विलयन → ऐसा विलयन जिसकी सांद्रता
Hypotonic solution कोशिका रस से कम होती है

Solution which have less
Concentration by cell sap

फूल जाती
Swell

Osmosis
परासरण

किशमिश
Rasine



Fluid Mosaic Model

