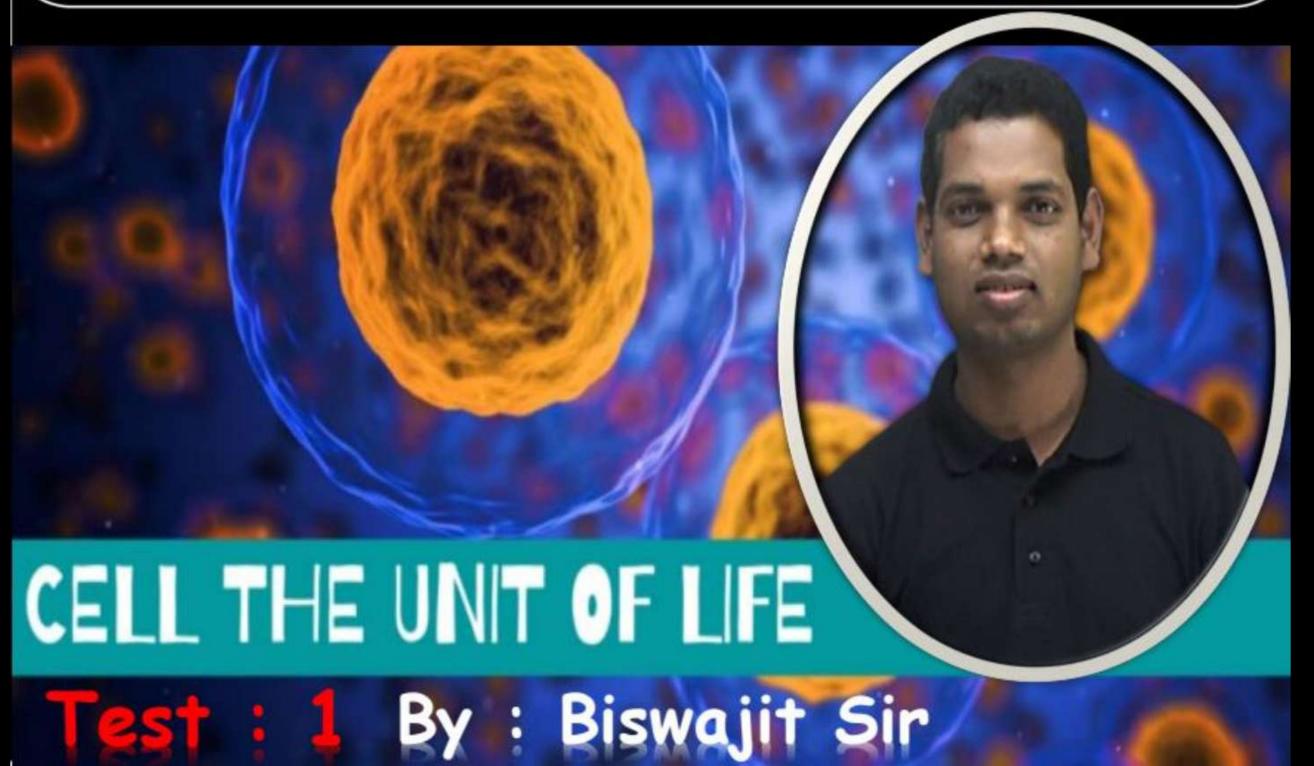


# ARJUNA NEET BATCH







nonliving

### Q1. Which of the following is incorrect with respect to inanimate things?

- (A) They have prokaryotic cells X
- (B) They have the basic unit of life 📉
- (C) They are non-living
- (D) Both A and B

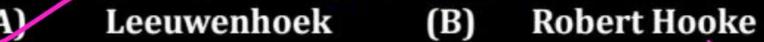
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Q2. Which of the following statements are correct?
Statement P: All organisms are made of cells (F)
Statement Q: Many organisms are single celled (F)

- (A) Both P and Q Some
- (B) Only P
- (C) Only Q
- (D) None





C) Schleiden (D) Schwann

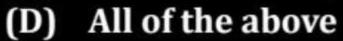


-) dead cell

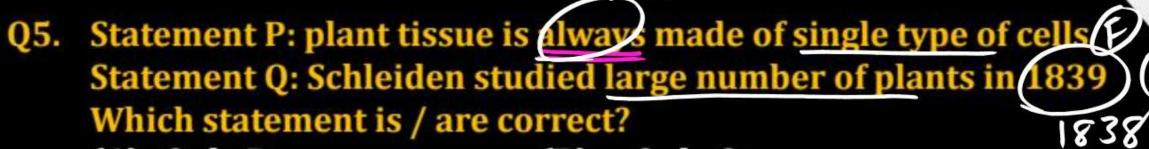


#### Q4. Which of the following is true about Schleiden?

- (A) German botanist (T)
- (B) Studied plants and animal cells
- (C) Observed that presence of cell wall is unique feature of plants







(A) Only P

(B) Only Q

(C) Both Pand Q

(D) None

Plant tissue

meristem

Permanent

Single-type

of cells

1x cells

1x cells

1 type of cells



Q6. Who said that new cells develop from pre-existing cell by cell division?

(A) Virchow (B) Schwann

(C) Scheiden (D) Both B and C

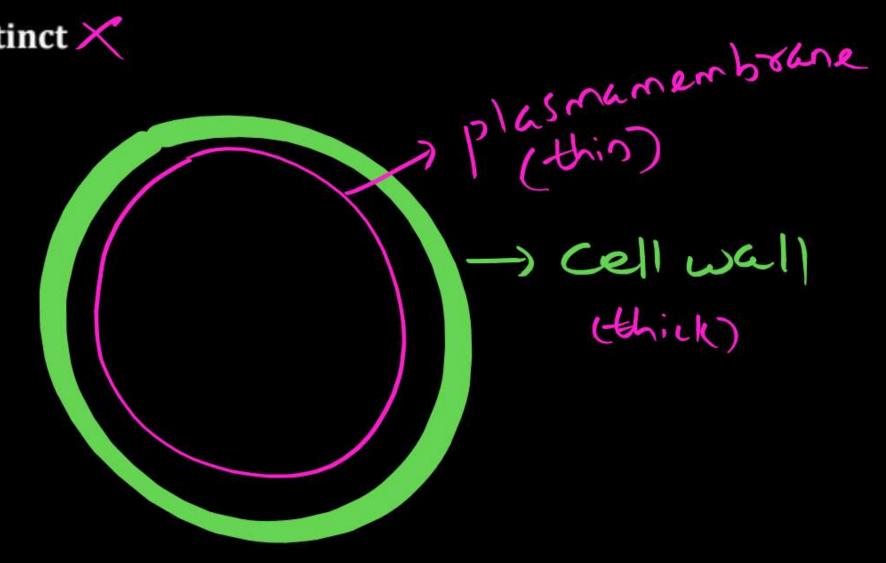


- Q7. Who modified cell theory?
  - (A) Virchow (B) Schwann
  - (C) Leeuwenhoek (D) Robert brown



### Q8. In a typical plant cell, cell wall and plasmamembrane are

- (A) Identical X
- (B) Distinct
- (C) Can be identical or distinct X
- (D) Equally thick X





#### Q9. Membrane bound organelles are present in

enkaryoticells

- (A) Prokaryotic cells
- (B) Eukaryotic cells
- (C) Mature RBCX
- (D) Both Band C



- Q10. In eukaryotic cell the genetic material is
  - (A) Protein (C) DNA

- (B) Lipid 💢
- (D) RNA 📈

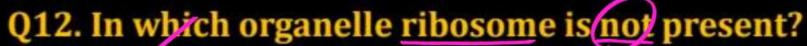
In all cellular organisms
genetic material
ds DNA

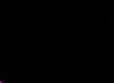




(A) Cytoplasm (B) Plasma membrane

(C) Nucleus (D) Cell wall





(A) Golgi complex -ve (B) Mitochondria -ve

(C) Chloroplast (D) More than one

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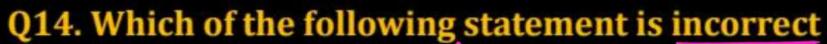


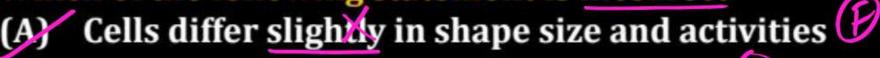
### Q13. Which of the following organelle is / are non-membrane bound

- (A) Centrosome
- (B) Ribosome

(C) Nucleus 💢

(D) More than one





- (B) The largest isolated cell is egg of ostrich
- (C) The shape of cell can be irregular
- (D) All of the above





Q15. Statement P: The shape of cell always very with function performed by the cell

Statement Q: nerve cells are some of the longest cells (T)
Which of the following statement is correct?

(A) Both P&Q

(B) Only P

(C) Only Q

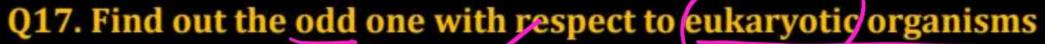
(D) None

### Q16. Which of the following has smallest cells?

(A) Mycoplasma (0.3 Mer B) RBC

(C) WBC (D) neuron







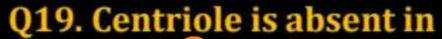
(C) Plants (D) Animals





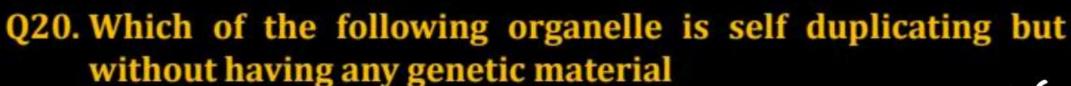
- (A) Animal cells —
- (B) Immature plant cells ~~
- (C) Mature plant cells +ve
- (D) Both A and B





- (A) All plant cells X
- (B) Almost all plant cells
- (C) Animal cells 🗶
- (D) None

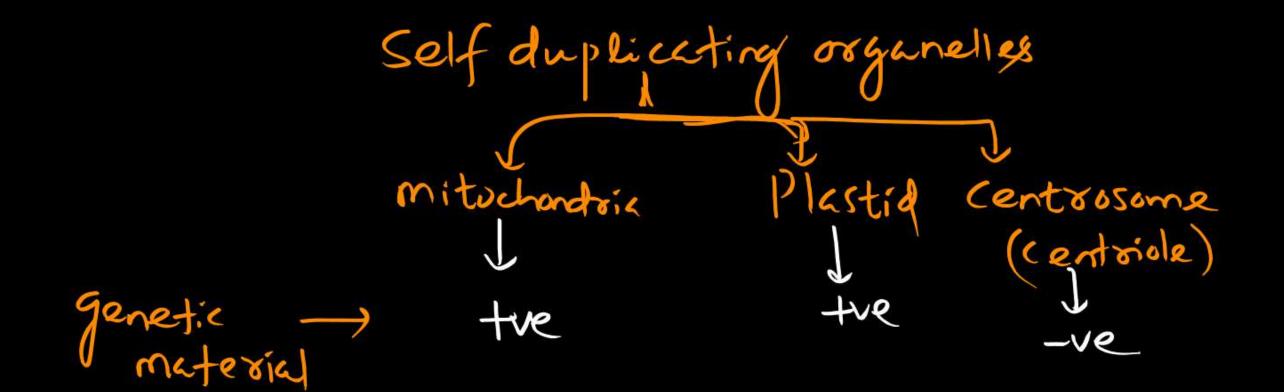


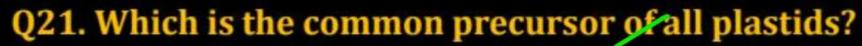


- (A) Mitochondria
- **(B)**
- Lysosome -> nonself duplicating

(C) Centrosome

(D) Chloroplast







- (A) Leucoplast
- (C) Amyloplast
- (B) Proplastid
- (D) Aleuroplast



### Q22. Which of the following enzyme is marker enzyme of mitochondria

- (A) Succinate dehydrogenase
- (B) Glycolate oxidase
- (C) Hexokinase
- (D) All of the above



# Q23. Which components of plasma membrane are responsible for transport of various types of molecules

- (A) Lipid ~
- (B) Protein
- (C) Carbohydrate X
- (D) Both lipid and protein

Plasmamembrane ) lipid + protein + Carbohydrate
mediate
transport

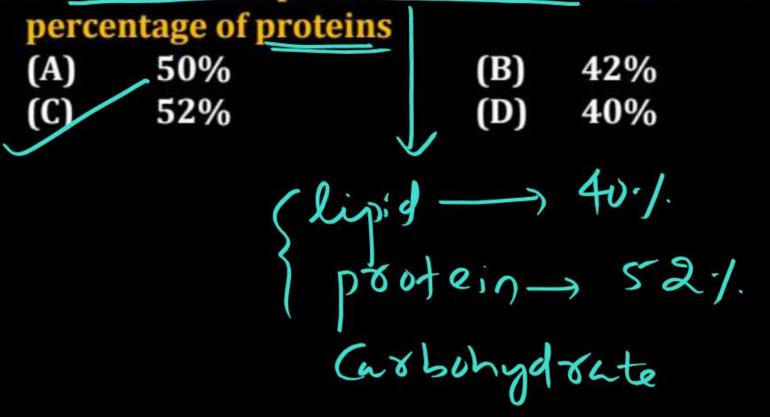


### Q24. Facilitated diffusion is

- (A) Passive process
- (B) Active process
- (C) Can be either active and passive X
- (D) None



### Q25. In human RBC plasma membrane what is the approximate





# Q26. Which of the following protein is <u>loosely</u> associated with lipid bilayer in plasmamembrane

- (A) External protein \
- (B) Peripheralral protein 🕶
- (C) Extrinsic protein
- (D) All of the above



# Q27. Which of the following model for plasmamembrane is most valid

- (A) Fluid music model ~
- (B) Unit membrane concept
- (C) Danieli Davson model
- (D) Overton model



### Q28. Which of the following shows both lateral and flipflop moment in plasma membrane

Lipid

(B) Protein

(A) (C) Carbohydrate

(D) All of the above

PM Shipid -> lateral, flip flop movement protein -> lateral movement



# Q29. Which is the following component of plasma membrane is present only on non cytosolic surface

(A) Lipid

- (B) Protein
- (C) Carbohydrate
- (D) none



### Q30. The most abundant lipid in plasma membrane is

- (A) Sterol
- (B) Phosphoglyceride ~
- (C) Sphingophospholipid
- (D) Glycolipid



### Q31. Find out the odd one with respect to cell wall components in

- algae
  - Chitin X
- (B) Cellulose
- (C) Galactan (D)
  - (D) Mannan

algal cell wall Celluluse, galactan, mannans, Minerals





- (A) Cell wall
- (B) Plasmodesmata
- (C) Endoplasmic reticulum
- (D) Plasmamembrane



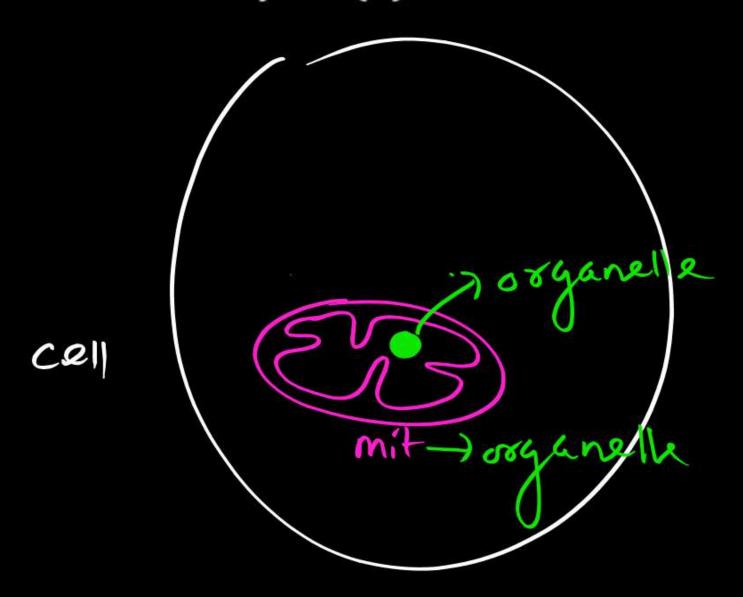


- (A) Pits
- (B) Plasmodesmata
- (C) Desmotubule
- (D) Cementing layer



# Q34. Which of the following organelle is considered as organelle within organelle

- (A) Centrosome (B) Ribosome
- (C) Protein factory (D) More than one





### Q35. Which of the following subunit of ribosome is attached to RER membrane?

(A) 60 S

(B) 40 S

(C) 50 S

(D) 30 S



# Q36. Which of the following <u>not</u> a component of endomembrane system

- (A) Golgi complex
- (B) Endoplasmic reticulum
- (C) Lysosome
- (D) Peroxisome /

endomemboune - ER

System - Gr

- Lysosome

- Vacuole.



### Q37. Mitochondrion is semi-autonomous due to presence of

- (A) Ribosome
- (B) Enzyme
- (C) Membrane
- (D) Ribosome, DNA, RNA

pextorms tunctions



xenobiotics

SER

month bounds! **Golgi complex** 

RER (B)

Peroxisome (D)

Cyt Pas-b

present in



Q39. Which of the following organelle is the major site of packaging of material?

(A) Golgi complex (B) SER

(C) Peroxisome (D) Mitochondrion

### Q40. Which cytoskeleton is structural component of Spindle fibre

- (A) Microtubule
- (B) Microfilaments X
- (C) Intermediate filament X
- (D) All of the above



(A) Spherosome

(B) Glyoxysome

(C) Peroxisome

(D) Mitochondrion

lipid Synthesis -> SER, Spherosome Storage -> Spherosome



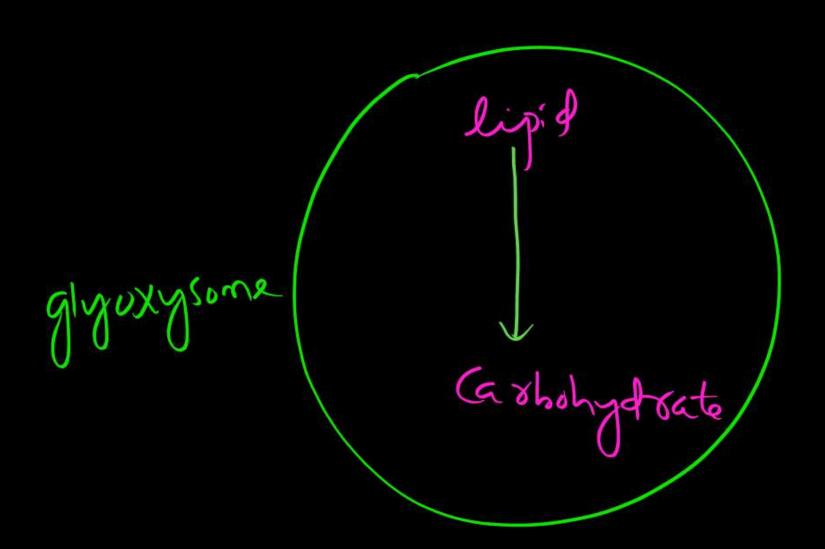
### Q42. Animal cells can't convert lipid into carbohydrate due to absence of

(A) Glyoxysome

(B) Peroxisome

(C) Lysosome

(D) Spherosome





### Q43. The DNA present in mitochondria is

- (A) Double stranded
- (B) Linear X
- (C) Circular 🕦
- (D) More than one

o) DriA de de contax naked he vich



#### Q44. Tonoplast is

- (A) Semipermeable
- (B) Membrane of vacuole -
- (C) Performs diffusion of ions across it
- (D) Halfunit membrane > pumping/active tourspon-

Tonoplast -) mamboana of Vacuole ) selective permeable



### Q45. Where is the most abundant protein in earth present?

- (A) Mitochondrial matrix
- (B) Stroma of chloroplast
- (C) Thylakoid membrane
- (D) Inner mitochondrial membrane

J. Found in Chloroplast-J. found in Stroma

