**NEET REVISION SERIES** 

**CELL- THE UNIT OF LIFE** 

Revise Most Important Questions to Crack NEET 2020

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Q-1 - 13842034

Match column I with column II and selecrt the correct option from

the codes given below.

Column I

- A. Leeuwenhoke (i)
- B. Robert Brown (ii)
- C. Schleiden (iii)
- D. Schwann

# Column II

- First saw and described a live
- Presence of cell wall is unique to
- Discovered the nucleus
- (iv)All plants are composed of different

(A) A-(i), B-(iii), C-(iv), (D-(ii)



(B) A-(i), B-(iii), C-(ii), D-(iv)

# (C) A-(iii), B-(i), C-(iv), D-(ii)

# (D) A-(i), B-(iv), C-(ii), D-(iii)

# CORRECT ANSWER: A

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Q-2 - 16189760

Which one is the largest unicellular organism

(A) Planaria

(B) Volvax

(C) Blue green algae

(D) Yeast

CORRECT ANSWER: D





#### Q-3 - 23779910

# Study of cell structure under microscope is

(A) Cytology

(B) Cell Biology

(C) Cytochemistry

(D) Microanatomy

CORRECT ANSWER: A

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Q-4 - 13842039

are self replicating, extra chromosomal segments of

double stranded circular and naked DNA, present in a bacterial cell.



# (B) Nucleoid

#### (C) Mesosomes

# CORRECT ANSWER: A

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Q-5 - 16189743

- T. Schwann and M. Schleiden were
  - (A) Dutch biologists
  - (B) English biologists
  - (C) Austrain biologists
  - (D) German biologists

#### CORRECT ANSWER: D



#### Q-6 - 23779961

Who proposed for the first time that cells are totipotent?

(A) White

(B) Haberlandt

(C) Steward

(D) Halperin and Wetherell

CORRECT ANSWER: B

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Q-7 - 13842048

The type of ribosomes found in prokaryotes is

# (A) 80S type

# (B) 70S type

# (C) 30S type

# CORRECT ANSWER: B

SOLUTION:

Thje cytoplasmic ribosomes of prokaryotes (blue green algae, bacteria and PPLOs) are 70S. They have two subunits 50S and 30S.

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Q-8 - 24359724

Number of membrane(s) separating intrathylakoid space from

cytoplasm is

(A) 4

(B) 3



# CORRECT ANSWER: B

SOLUTION:

Number of membrances seperating intrathylakoid space

(lumen) from cytoplasm are 3.

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Q-9 - 16189795

Desmosomes are concerned with

(A) Cell division

#### (B) Cellular excreation

# (C) Cytolysis

#### (D) Cell adherence

# **CORRECT ANSWER: D**

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Q-10 - 13842031

The figures of cork cells as seen by Robert Hooke were published in

the book

(A) Origin of species

(B) Species plantarum

(C) Genera plantrum

(D) Micrographia.

CORRECT ANSWER: D



#### Q-11 - 16189744

Who proposed the theory that "cells arise only from the pre-existing cells"

(A) Mohl

(B) Virchow

(C) Hacekel

(D) Brown

CORRECT ANSWER: B

SOLUTION:

Virchow gave 'Omnis cellula a cellula' theory.

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#### Q-12 - 13842029

#### The most likely method, used to determine the structural details of a

cell organelle is

(A) autoradiography

(B) microdissection

(C) electron microscopy

(D) phase contrast microscopy.

CORRECT ANSWER: C

SOLUTION:

Electron microscope is the best device to determine

thwe structural details of a cell. If can magnify objects

upto 250,000 - 400,000 times. Its resolving power is

#### 1000 times more than the light microscope. This

# resolution is because of low wavelength (0.005nm) of

#### electron beam used as light source. Electron microscope

#### ios made up of electromagnetic lenses. The beam of

el, ectrons is focussed on the objects with the help of a

condenser lens and a magnified image is further

magnified by a projector lens and final image is

produced on fluorescent screen.

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Q-13 - 23779924

Who proposed the "Cell theory"

(A) Schwann

(B) Schleiden

(C) Swanson



#### **CORRECT ANSWER: B**

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Pure fractions of cellular components can be isolated by

(A) Chromatography

(B) Scanning electron microscopy

(C) X-ray diffraction

(D) Differential centrifugation

**CORRECT ANSWER: D** 

SOLUTION:

Differential centrifugation : It is a mechanical separtion of

#### individual subcelluar component from homogenate in

#### centrifuge at different low speeds. Large/heavy/denser

#### particles settle down first at lower speeds while the

lighter/smaller/less denser particles do so at higher

# speeds in centrifuge.

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Q-15 - 13842051

Polyribosomes are aggregation of

(A) ribosomes and rRNA

(B) peroxisomes

(C) several ribosomes held together by a string of mRNA

(D) rRNA.

CORRECT ANSWER: C

#### SOLUTION:

#### Ribosomes may occur singly as monosomes or in

### rosettes and helical groups called polyribosomes. The

different ribosomes are formed during periods of active

protein synthesis when a number of copies of the same

polypeptide are required.

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Q-16 - 23779980

Functionally important dead cells are

(A) Cork cells

(B) Tracheary elements

(C) Both A and B

(D) Endothelial cells

#### CORRECT ANSWER: C



Amitosis usually occurs in

(A) eukaryotic cells

(B) prokaryotic cells

(C) meristems

(D) spore mother cells.

CORRECT ANSWER: B

SOLUTION:

Amitosis is a method of direct cell division in which the

nucleus divides into two daughter nuclei without showing

#### differentiation of chromosomes and development of

# spindle. It is commonly seen in prokaryotes.



Which of the following represents the features of lysosomes?

(A) A lower pH than the cytoplasm

(B) Redused hydrolase activity

(C) Double membrane envelope

(D) All of these

CORRECT ANSWER: A

SOLUTION:

Lysosomal enzymes function in acidic medium or pH  $4.5\,$ 

#### . This pH is lower than that of cytoplasm.



#### Q-19 - 23780028

Protoplasm is a

(A) Emulsion

(B) Complex colloidal solution

(C) Molecular solution

(D) Suspension

**CORRECT ANSWER: B** 

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Q-20 - 13842119

Which of the following statements regarding sphaerosomes is not



#### (A) Abundant in the endosperm cells of oil seeds

# (B) Bounded by a single membrane

(C) Take part in synthesis and storage of lipids

(D) Take part in photorespiration

CORRECT ANSWER: D

SOLUTION:

Sphaerosomes are small cell organells bounded by

single membrane which take part in storage and

synthesis of lipids. Sphaerosomes occur abundantly in

the endosperm cells of oil seeds. Chloroplast,

peroxisome and mitochondria take part in

photorespiration.

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#### Q-21 - 13842111

#### Lysosomes are the reservoirs (store houses) of

(A) hydrolytic enzymes

(B) oxidative enzymes

(C) secretory glycoproteins

(D) RNA and proteins.

**CORRECT ANSWER: A** 

SOLUTION:

Lysosomes store the hydrolysing enzymes of the cell.

The important enzymes are acid phosphatases,

sulphatases proteases, peptidases, nucleases, lipases

and glycosidases.



#### Q-22 - 16189738

#### Which of the following is the exception of cell theory

(A) Bacteria

(B) Fungi

(C) Lichen

(D) Virus

CORRECT ANSWER: D

SOLUTION:

Viruses are not applicable to cell theory. They are made

up of proteins and one of nucleic acids i.e., DNA or RNA.

So they lack protoplasm, the essential part of the cell.

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#### Q-23 - 23779955

#### Cells which lose their nucleus during differentiation are

(A) Nerve cells

- (B) Muscle cells
- (C) Erthrocytes
- (D) Leucocytes

# CORRECT ANSWER: C

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Q-24 - 13842084

Continuity of cytoplasm from cell is maintained through

cytoplasmic connection in plants called



# (B) tight junction

# (C) gap junction

# CORRECT ANSWER: D

# SOLUTION:

Plasmodesmata are cytoplasmic bridges between adjacent plant cells which develop in minute pores of their walls. They form a protoplasmic continuum called symplast. It provides channels for controlled passage of small sized particles between adjacent cells as well as transfer of some specific signals.

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Q-25 - 16189761

#### Smallest known cell is

#### (A) Acetabularia

(B) Nostoc

(C) Chlamydomonas

(D) Pleuropneumonia like organism

CORRECT ANSWER: D

SOLUTION:

Pleuro-pneumonia like organism (PPLO), Mycoplasma

gallisepticum is having an average size of  $0.150\mu$ .

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Q-26 - 23780020

70S type of ribosome shows two units whose sedimentation

#### constants are

" " Or

#### Sub unit in prokaryotic ribosome is

(A) Sedimentation coefficient

(B) Solubility

(C) Surface area

(D) Size

# CORRECT ANSWER: A

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Q-27 - 13842073

Who gave the lamellar or sandwich model of cell membrane?

(A) Singer and Nicolson

#### (B) Danielli and Davson

# (C) J.Robertson

(D) None of these

SOLUTION:

In 1935, Danielli and Davson proposed that cell membrane is made of a double layer of phospholipid molecules sandwiched between two single layers of proteins. The three layers are held together by electrostatic forces while phospholipid layers are kept adhered by vander Waal's forces.

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Q-28 - 16189736

Scientists were able to pinpoint the location of colour processing

#### centres in the visual cortex of the brain by means of

### (A) PET

# (B) NMR

(C) CT

(D) X-ray

# CORRECT ANSWER: A

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Q-29 - 23779936

Distinction of individual cells is absent in coenocytic organism

(A) Ultothrix

(B) Volvox



# (D) Rhizopus

#### CORRECT ANSWER: D



Q-30 - 13842033

Omnis cellula-e cellula' i.e., new cells arise from prexisting cells,

this statement was given by

(A) Schleiden and Schwann

(B) Rudolf Virchow

(C) Robert Brown

(D) Robert Hooke.

CORRECT ANSWER: B



#### Rudolf Virchow modified the cell theory and gave the

#### concept of 'omnis cellula-e cellula' - means new cells

# develop by division of the pre-existing cells. This is

called theory of cell lineage or common ancestry.

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Q-31 - 23780001

The term protoplasm was coined by

(A) Corti

(B) Dujardin

(C) Purkinje

(D) Dutrochet

CORRECT ANSWER: C





#### Q-32 - 13842124

# In which of the following parts of mitochondria succinic

dehydrogenase enzyme is located ?

(A) Perimitochondrial space

(B) Outer membrane

(C) Matrix

(D) Inner membrane

CORRECT ANSWER: D

SOLUTION:

Succinate dehydrogenase is an enzyme complex

involved in TCA cycle, located in inner mitochondrial

membrane.



#### Q-33 - 16189751

Which one of the following pairs is not correctly matched

(A) Cristae " " The "Shelves" formed by the folding of the inner membrane of the mitochondrion

(B) Plasmodesmata " "The membrane surrounding the vacuole in plants

(C) Grann " " Membrane bound discs in chloroplasts that contain chlorophylls and carrotenoids

(D) Middle lamella " " Layer between adjacent cell walls

in plants derived from cell plate

CORRECT ANSWER: B



#### Because the membrane which surrounds the vacuole is

#### known as tonoplast.



Q-34 - 13842055

According to unit membrane structure, the thickness of plasma

membrane is about

- (A) 35 🏟
- (B) 20 🏟
- (C) 75 �

(D) 100 🏟

### CORRECT ANSWER: C

#### SOLUTION:

### According to Robertson's concept of unit membrane, the

#### cell membrane is trilaminar. It has a thickness of about

# 75 with a central lipid layer of 35 thcik and two

peripheral protein layers of 20 each.

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Q-35 - 16189768

Middle lamella is made up of

(A) Cellulose

(B) Suberin

(C) Calcium and magnesium pectate

(D) Lignin

CORRECT ANSWER: C





#### Q-36 - 23779925

### The living substance of cell was named sarcode by

(A) Corti

(B) Dujardin

(C) Lamarck

(D) Dutrochet

CORRECT ANSWER: B

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Q-37 - 13842043

Glycocalyx (mucilage sheath) of a bacterial cell may occur in the

form of a loose sheath called \_\_\_\_\_ or it may be thick and

tough called

### (A) capsule, slime layer

# (B) slime layer, capsule

(C) mesosome, capsule

(D) mesosome, slime layer

# **CORRECT ANSWER: B**

SOLUTION:

Glycocalyx (mucilage sheath) is the outermost layer of the bacterial with cell envelope which consists of noncellulosic polysaccharides with or without proteins. It may occur in the from of loose sheath, called slime layer. If it is a thick covering, it is called capsule. Glycocalyx gives sticky character to the cell and is not absolutely essential for survival of bacteria. It and viruses and

# serves in attachment. It may give selective advantage

#### though in certain situations.



Who proposed protoplasmic theory as opposed cell theory?

(A) Virchow

(B) Schultze

(C) Sachs

(D) Strasburger

**CORRECT ANSWER: B** 

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Q-39 - 23779960

#### Morphogenesis in tissue culture was discovered by

### (A) Gautheret

(B) Skoog and Miller

(C) Muir et al

(D) Steward et al

# CORRECT ANSWER: B

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Q-40 - 13842045

Mesosomes are the infoldings of cell membrane, which

(i) are present in both prokaryotic and equkaryotic cells.

(ii) help in cell wall formation, DNA replication and respiration.

(iii) increase the surface area of plasma membrane.



# (B) (ii) and (iii)

(C) (i) and (iii)

(D) (i), (ii) and (iii)

# CORRECT ANSWER: B

# SOLUTION:

Mesosmes are present only in prokaryotes.

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Q-41 - 16189770

The internal layer joining the primary walls of the two adjacent cells

is known as

" " Or

The possibility of being outermost layer of cell is highest for which



### (A) Plasmodesmata

### (B) Middle lamella

(C) Periderm

(D) Casparian strip

# CORRECT ANSWER: B

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Q-42 - 24359732

 $F_1$  particles occur in

(A) Mitochondria

(B) Chloroplasts

(C) Ribosomes

# (D) Rough endoplasmic reticulum

#### **CORRECT ANSWER: A**

#### SOLUTION:

# $F_1$ particles occur in mitochondria.

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Q-43 - 13842066

Cell recognition and adhesion are facilitated by components of

plasma membrane. These components are generally

(A) protein molecules alone

(B) lipids alone

(C) both lipids and proteins

(D) glycolipids and glycoproteins.

CORRECT ANSWER: D

#### SOLUTION:

#### Prooteins have very specific shapes which make them

ideal as rececptor molecules for chemical signalling

between cells. Branching side chain glycolipids on the

outer surface of cell membranes are also involved in

cell-cell recognition.



Q-44 - 23779976

During defferentiation, RBCs lose

(A) Aerobic respiration

(B) DNA replication

(C) RNA synthesis

### (D) All the above

#### CORRECT ANSWER: D

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Bulk drinking of fluid by cells is termed as

" " Or

The process of sucking of fluid from the cell surface is called

(A) Phagocytosis

(B) Pinocytosis

(C) Cyclosis

(D) Osmosis

CORRECT ANSWER: B

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#### Q-46 - 13842062

### Lipids are arranged within the membrane with

(A) polar heads towards inner side and the hydrophobic

talis toward outerside

(B) both heads and tails toward outerside

(C) heads toward outerside and tail towards inside

(D) both heads and tails towards innerside.

**CORRECT ANSWER: C** 

SOLUTION:

In lipid bilayer, lipids are arranged with the polar head

towards the outer side and the hydrophobic/non-polar

tails towards the inner side.





#### Q-47 - 23779967

#### Embryoids are

(A) Somatic embryo-like structures

(B) Small embryos through fertilisation in culture

(C) Early embryho stages used for Propagation in tissue

culture

(D) All the above

CORRECT ANSWER: A

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Q-48 - 16189771

The strength and rigidity of a cell wall is due to the substance

known as

# (A) Suberin

# (B) Cellulose



(D) Pectin

# CORRECT ANSWER: C

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Q-49 - 23779941

A nucleus is absent in the mature

(A) Sieve tube cells

(B) Mammalian erythrocytes

(C) Monocytes

# (D) Both A and B

#### **CORRECT ANSWER: D**



The best material for the study of structure of cell membrane is

(A) RBC of human

(B) liver cell

(C) kidney cell

(D) muscle cell.

CORRECT ANSWER: A

SOLUTION:

RBCs lack nucleus and may other cell organelles thus

#### they are best suited to study cell membrane without any

#### complication.



Micrographia was written by

(A) Grew

(B) Hooke

(C) Brown

(D) Lamarck

**CORRECT ANSWER: B** 

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Q-52 - 13842132

#### Which of the following is the correct match?

### (A) Amyloplasts - Store carbohhydrates

(B) Elaioplasts - Store fast and oils

(C) Aleuroplasts - Store proteins

(D) All of these

CORRECT ANSWER: D

SOLUTION:

Leucoplasts are colourless plastids which generally occur newar the nucleus in the non-green cells and possess internal lamellae. There are three types of special leucoplasts :

(i) amyloplasts which are starch containing leucoplasts,e.g., potato tuber. (ii) elaioplasts or lipidoplasts or

#### oleoplasts which are colourless plastids and store lipids

#### e.g., tube rose. (iii) aleuroplasts or proteoplasts or

#### proteinoplasts which are protein storing plastids, e.g.,

aleurone cells of maize grain, endosperm cells of castor.



Q-53 - 16189805

Which one of the following is not a constituent of cell membrane

(A) Cholesterol

(B) Glycolipids

(C) Proline

(D) Phospholipids

CORRECT ANSWER: C

SOLUTION:

#### Proline is a secondary amino acid which is not found in

plasma membrane.



The most abundant lipid in the cell membrane is

(A) cutin

(B) glycolipid

(C) steroid

(D) phosphoglycerides.

CORRECT ANSWER: D

SOLUTION:

The lipid component of the cell membrane mainly

### consists of phosphoglycerides.



Q-55 - 16189772

The most abundant substance of middle lamella is

(A) Suberin

(B) Cutin

(C) Lignin

(D) Pectin

# **CORRECT ANSWER: D**

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Q-56 - 16819765

[a=log12,b=log21,c=log11 and d=log22 then log((1)/(7)) can be

#### expr P(a-b)+Q(c-d) where P and Q are integers then the value of

### (7P-Q) equals [ (A) 5, (D) 15]]

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Which of the best way to separate intact chloroplast from green

leaves of angiospermic plant?

(A) Petrol-ether

(B) Chloroform

(C) 10 % sucrose solution

(D) Alcohol

CORRECT ANSWER: D

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### A tissue having more non-living material than the living matter is

(A) Epithelial tissue

(B) Parenchyma

(C) Connective tissue

(D) Nervous system

# CORRECT ANSWER: C

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Q-59 - 16189755

The size of most of the cells is best expressed in

# (B) Milimeters (mm)

# (C) Nanometers (nm)

# (D) Micrometers $(\mu m)$

# CORRECT ANSWER: D

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Q-60 - 13842071

According to the modern concept, cell membrane is

(A) solid

(B) quasifluid

(C) fluid

(D) solidified sheath.

CORRECT ANSWER: B





#### Q-61 - 23779974

#### Differentiated cells are

(A) Premitotic specialised

(B) Post-mitotic specialised

(C) Premeiotic -specialised

(D) Post-meiotic specialised

CORRECT ANSWER: B

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Q-62 - 13842109

Which one of the mis-matched pair ?

(A) Largest isolated , single cell - Egg of an ostrich

### (B) Golgi apparatus - Discovered by Altman

#### (C) Mitochondria - Name was given by Benda

#### (D) Lysosomes - Discovered by de Duve

SOLUTION:

Golgi apparatus was discovered by Camillo Golgi nerve

cells of barn owl and cat.

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Q-63 - 24359704

Lysosomal enzymes are active at pH

(A) 5

(B) 7

(C) 8

# (D) Variable

#### **CORRECT ANSWER: A**

SOLUTION:

Lysosome enzymes are active at acidic pH (less than 7).

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Q-64 - 13842098

Which of the following cell organelles are named after the name of its discoverer?

(A) ER

(B) DNA

(C) Golgi bodies

#### (D) Mitochondria

#### **CORRECT ANSWER: C**

#### SOLUTION:

Camillo Golgi first recognised the densely stained

reticular structures near the nucleus in 1898. These

were later named Golgi bodies after him.

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Q-65 - 16189781

The chemical substances found most abundantly in the middle

lamella is released into the phragmoplast by

(A) Endoplasmic reticulum

(B) Golgi complex

(C) Spindle fragments

#### (D) Interzonal fibres

#### **CORRECT ANSWER: B**

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New cells have

- (A) Bacterial fermentation
- (B) Regeneration of old cells
- (C) Pre-existing cells
- (D) Abiotic material

CORRECT ANSWER: C

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#### Mechanical support, enzyme circulation, protein synthesis and

#### detoxification of durgus are the function of



(B) chloroplast

(C) ribosomes

(D) ER.

CORRECT ANSWER: D

SOLUTION:

ER function as cytoskeleton or skeletal framework by providing mechanical support to colloidal cytoplasmic matrix. It conducts information from cell to cell. RER helps in protein synthesis. SER takes part in detoxification of toxic chemical in liver.



#### Q-68 - 16189775

# Identify the polysaccharide with $\beta$ -glycosidic bonds

(A) Starch

(B) Glycogen

(C) Sucrose

(D) Cellulose

# CORRECT ANSWER: D

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Q-69 - 13842101

These are the densely stained reticular stuctures present near the

nucleus, consisting of many flat, disc shaped cistemae of

 $0.5 - 1.0 \mu m$  diameter. These are

# (A) chloroplasts

#### (B) endoplasmic reticulum

(C) mitochondria

(D) Golgi apparatus

CORRECT ANSWER: D

SOLUTION:

Camillo Golgi discovered the Golgi apparatus as

reticular structure. Typically, it is  $0.5 - 1.0 \mu m$  in

diameter but its shape and size dependes upon the

physiological state of the cell.

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#### Beet root if kept in cold water anthocyanin does not come out due

to plasma membrane

### (A) Differentially permeable

(B) Impermeable to anthocyanis

(C) Permeable to anthocyanins

(D) Dead

CORRECT ANSWER: B

SOLUTION:

Anthocyanin pigment cannot come outside due to

impermeability of plasma membrane.

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Q-71 - 23780042

Living beings are made up of cells. This was first stated by

### (A) Lamarck

# (B) Von Helmont

(C) Schleiden and Sachwann

(D) Hugo de Vires

# **CORRECT ANSWER: B**

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Q-72 - 13842096

Which organelle helps in the synthesis of lipids, chloesterol,

steroids and visual pigments in epithelial cells of retina?

(A) Golgi bodies

(B) RER

#### (C) SER

### (D) Mitochondria

#### **CORRECT ANSWER: C**



Q-73 - 16189778

- A protoplast is a cell
  - (A) Without nucleus
  - (B) Undergoing division
  - (C) Without cell wall
  - (D) Without plasma membrane

# CORRECT ANSWER: C

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#### Q-74 - 23780056

#### Physical basis of life is

(A) Nucleoplasm

- (B) Cytoplasm
- (C) Plasmalemma
- (D) Protoplasm

# CORRECT ANSWER: D

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Q-75 - 13842104

Which of the these is not a function of Golgi apparatus?

(A) Site of synthesis of glycoproteins and glycolipids



#### (C) Membrane transformation

# (D) Site of protein synthesis

SOLUTION:

The Golgi complex modifies, sorts and packages proteins and lipids coming from the ER. Packaging involves wrapping the material by a membrane, forming secretory vesicles. Site of protein synthesis is ribosomes.

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Q-76 - 16189779

What is the structural element of cell wall



### (B) Microtubules

### (C) Microfibrils

(D) Arabinogalactans

# CORRECT ANSWER: D

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Q-77 - 13842106

Cells which are secretory in function have abundant

(A) lysosomes

(B) endoplasmic reticulum

(C) dictyosomes

(D) osteosomes.

#### **CORRECT ANSWER: C**

#### SOLUTION:

#### Dictyosome is a cup-shaped structure of flattened

membranous vesicles found in plant cell. They modify proteins from the ER, and may also polymerise sugars to polysaccharides. They then pack these materials for delivery to destinations within the cell, for secretion, or for storage.

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Q-78 - 23780073

Who wrote the book "Cells and Tissues" and coined the term of

cytology

(A) Robert Hooke

#### (B) Leeuwenhoek

# (C) Hertwig

### (D) Swammerdam

# **CORRECT ANSWER: C**

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Q-79 - 16189794

The type of cell juction which facilitates cell to cell communication

is

(A) Tight junction

(B) Adhering junction

(C) Gap junction

(D) Desmosomes

**CORRECT ANSWER: C** 



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