





## **BIOLOGY**

## **BOOKS - SARAS PUBLICATION**

## PLANT PHYSIOLOGY



**1.** The overall goal of glycoysis , krebs cycle and the electron transport system is the formation of:

A. Nucleic acids

B. ATP in small stepwise units

C. ATP in one large oxidation reaction

D. Sugars

#### Answer:

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**2.** If the mean and the median pertaining to a certain character of a value , the following is most likely to occur:

A. a skewed curve

B. a normal distribution

C. a bi-model distribution

D. a T-shaped curve

#### Answer:



**3.** The first acceptor of electrons, from an excited chlorophyl molecule of photo systems II is

A. Quinone

B. Cytochrome

C. Iron - sulphur protein

D. Ferredoxin

#### Answer:



**4.** All enzymes of TCA cycle are located in the mitochondrial matrix except one which is located in inner mitochondrial membranes in eukaryotes and in cytosol in prokaryotes. This enzymes is:

A. succinate dehydrogenase

B. lactate dehydrogenase

C. isocitrate dehydrogenase

D. malate dehydrogenase

#### Answer:



**5.** Two cells A and B are contiguous. Cell A has osmotic pressure 10 atm, turgor pressure - 7 atm and diffusion -pressure deficit 3 atm. Cell B has osmotic pressure 8 atm, turgor pressure 3 atm and diffusion pressure deficit 5 atm . The result will be:

A. Movement of water from Cell A to B

B. Movement of water from Cell B to A

C. No movement of water

D. Equilibrium between the two

## Answer: Watch Video Solution

**6.** In the leaves of  $C_4$  plants, malic acid formation during  $CO_2$  fixation occurs in the cells of:

A. Epidermis

B. Mesophyll

C. Bundle Sheath

D. Phloem



**7.** Which one of the following elements is not an essential micronutrient for plant growth?

A. Ca

B. Mn

C. Zn

D. Cu

Answer:

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8. During the transmission of nerve impulse through a nerve fibre, the potential on the inner side of the,plasma membrane has which type of electric charge?

- A. First positive, then negative and again back to positive
- B. First negative, then positive and again back to negative
- C. First positive, then negative and continue to be negative

D. First negative, then positive and continue to be

positive

#### Answer:

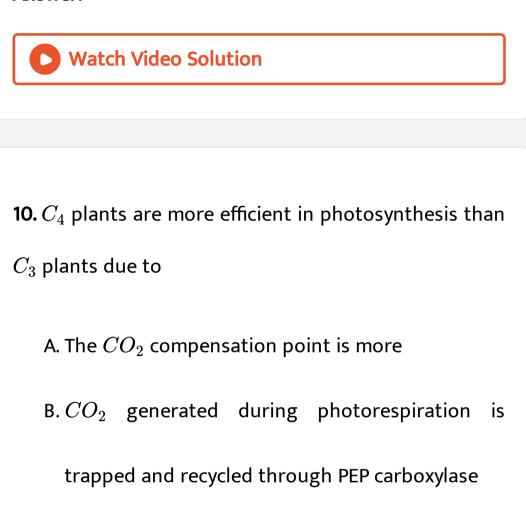


9. A plant requires magnesium for:

A. Cell wall development

- B. Holding cells together
- C. Proteins synthesis
- D. Chlorophyll synthesis

#### Answer:



- C. The  $CO_2$  efflux is not prevented
- D. They have more chloroplasts



**11.** Nitrogen fixation in root nodules of Alnus is brought about by:

A. Bradyrhizobium

B. Clostridium

C. Frankia

D. Azorhizobium



**12.** The rupture and fractionation do not usually occur in the water column in *vessel/tracheids* during the ascent of sap because of:

A. lignified thick walls

B. cohesion and adhesion

C. weak gravitational pull

D. transpiration pull



**13.** In the leaves of  $C_4$  plants, malic acid formation during  $CO_2$  fixation occurs in the cells of:

A. Epidermal cells

B. Mesophyll cells

C. Bundle sheath

D. Guard cells



14. The slow fate of the decomposion of fallen logs in

nature is due to their:

A. low moisture content

B. poor nitrogen content

C. anaerobic environment around them

D. low cellulose content

#### **Answer:**



**15.** Vacuole in a plant cell:

A. is membrane - bound and contains storage

proteins and lipids

B. is membrane - bound and contains water and

excretory substances

C. lacks membrane and contains air

D. lacks membrane and contains water and

excretory substances



**16.** Which one of the following proved effective for biological control of nematodal disease in plants?

A. Pisolithus tinctorius

B. Pseudomonas cepacia

C. Gilocladium virens

D. Paecilomyces lilacinus



**17.** The chemiosmotic coupling hypothesis of oxidative phosphorylation proposes that adennosine triphosohate (ATP) is formed because:

A. high energy bonds are formed in mitochondrial

proteins

B. ADP is pumped out of the matrix into the

intermembrane space

- C. a proton gradient forms across the inner membrane
- D. there is a change in the permeability of the inner mitochondrial membrane toward Adenosine

diphosphate (ADP)

#### Answer:

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18. Which one is the wrong pairing for the disease and

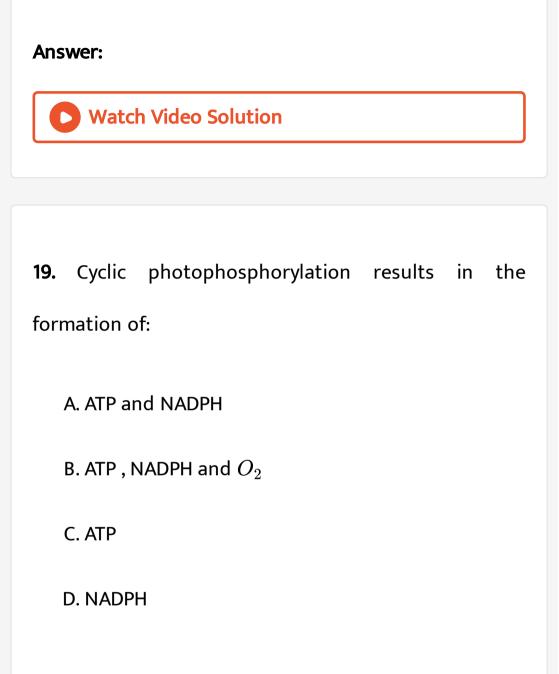
its causal organism?

A. Black rust of wheat- Puccinia graminis

B. Loose smut of wheat- Ustilago nuda

C. Root - knot of vegetables- Meloidogyne sp

D. Late blight ofpotato solani - Alternaria





**20.** Stroma in the chloroplasts of higher plant contains:

A. Light - dependent reaction enzymes

**B.** Ribosomes

C. Chlorophyll

D. Light - independent reaction enzymes

Answer:

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21. Uric acid is the chief nitrogenous component of the

excretory product of ....

A. Earthworm

B. Cockroach

C. Frog

D. Man

#### **Answer:**



22. Guard cells help in:

A. Transpiration

**B.** Guttation

C. Fighting against infection

D. Production against grazing

#### Answer:

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**23.** Which one of the following pairs of food components in human reaches the stomach totally undigested?

A. Starch and fat

- B. Fat and cellulose
- C. Starch and cellulose
- D. Protein and starch

#### Answer:



24. Which one of the following structure between two

adjacent cells is an effective transport pathway?

A. Plasmodesmata

**B.** Plastoquinones

C. Endoplasmic reticulum

#### D. Plasmalemma

#### Answer:



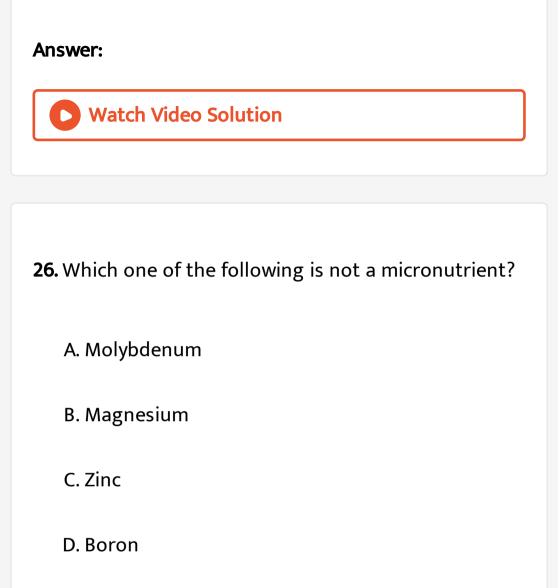
**25.** An element playing important role in nitrogen fixation is:

A. Molybdenum

B. Copper

C. Manganese

D. Zinc



#### Answer:

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**27.** PGA as the first  $CO_2$  fixation product was discovered in cells is an effective transport pathway?

A. Bryophyte

B. Gymnosperm

C. Angiosperm

D. Alga

#### Answer:



**28.** Low Ca in the body fluid may be the cause of:

A. Tetany

B. Anaemia

C. Angina pectoris

D. Gout

#### Answer:

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**29.** Which one of the following pairs is incorrectly matched?

A. Glucagon - Beta cells (source)

B. Somatostatin- Delta cells (source)

C. Corpus luteum - Relaxin (secretion)

D. Insulin - Diabetes mellitus (disease)

#### Answer:

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**30.** Phototropic curvature is the result of uneven distribution of

A. Gibberellin

B. Phytochrome

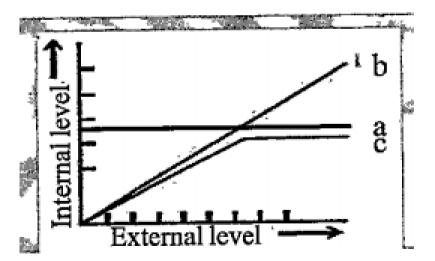
C. Cytokinins

D. Auxin

# Answer: Watch Video Solution

**31.** The figure given is a diagrammatic representation of response of organisms to abiotic factors. What do a

, band c represent respectively?



A. a)conformer b) regulator c) partial.

B. a)regulator b)partial regulator c)conformer

C. a)partial regulator b)regulator c)conformer

D. a)regulator b)conformer c)partial regulator

#### Answer:



**32.** One of the free - living anaerobic nitrogen -fixer is:

A. Beijernckia

B. Rhodospirillum

C. Rhizobium

#### D. Azotobacter

#### Answer:



**33.** The common nitrogen-fixer in paddy fields is :

A. Rhizobium

B. Azospirillum

C. Oscillatoria

D. Frankia





**34.** Carrier ions like  $Na^+$  facilitate the absorption of substances like:

A. amino acids and glucose

B. glucose and fatty acids

C. fatty acids and glycerol

D. fructose and some amino acids

#### Answer:

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**35.** The energy releasing metabolic process in plant is which substrate is oxidised without an external electron acceptor is called:

A. Glycolysis

**B.** Fermentation

C. Aerobic respiration

D. Photorespiration



**36.** C plants are more efficient in photosynthesis than  $C_3$ - plants due to:

A. Higher leaf area

B. Presence of larger number of chloroplasts in -the

leaf cells

C. Presence of thin cuticle

D. Lower rate of photorespiration



**37.** Important site for formation of glycoproteins and glycolipids is:

A. Lysosome

B. Vacuole

C. Golgi apparatus

D. Plastid



38. Which one of the following elements in plants, is

not remobilised?

A. Sulphur

B. Phosphorus

C. Calcium

D. Potassium

#### **Answer:**



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**39.** In land plants the guard cells differ from other epidermal cells in having:

A. Chloroplasts

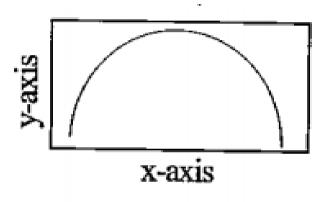
B. Cytoskeleton

C. Mitochondria

D. Endoplasmic reticulum



**40.** The curve given below show enzymatic activity with relation to three conditions (Ph, temperature and substrate concentration). What do the two axises ( x and y) represent? x - axis, y - axis.



A. Enzymatic activity Temperature

B. Enzymatic activity - pH

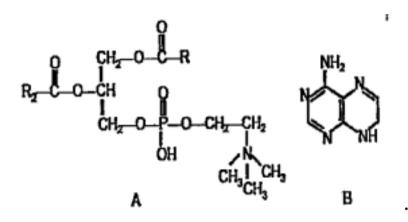
C. Temperature - Enzyme Activity

D. Substrate concentration - Enzymatic Activity

# Answer:



**41.** Which one of the following structural formulae of two organic compounds is correctly identified along with its related function?



A. A: Lecithin - a component of cell membrane

B. B: Adenine - a nuleotide that makes up nucleic

acids

C. A: Triglyceride - major source of energy

D. B: Uracil - a component of DNA

# Answer:

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**42.** The initial step inthe digestion of milk in humans is

carried out by?

A. Trypsin

B. Pepsin

C. Rennin

D. Lipase

## Answer:

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**43.** When a -neuron is in resting state i.e not conducting any impulse, the axonal membrane is:

A. Comparatively more permeable to $K^+ions$  and

nearly impermeable to  $Na^+ions$ .

B. Comparatively more permeable to  $Na^+$  ions and

nearly impermeable to  $K^+$  ions

C. Equally permeable to both  $Na^+$  and  $K^+$  ions

D. Impermeable to both  $Na^+$  and  $K^+$  ions

### **Answer:**



**44.** Which one of the following statements for pyramid of energy is incorrect , whereas the remaining three are correct?

A. It is upright in shape

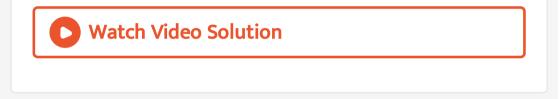
B. Its base is broad

C. It shows energy content of different trophic level

organisms

D. it is inverted in shape

### Answer:



**45.** Pheretima and its close relatives derive nourishment from

A. sugarcane roots

B. soil insects

C. decaying fallen leaves and soil organic matter

D. small pieces of fresh fallen leaves of maize, etc

## Answer:



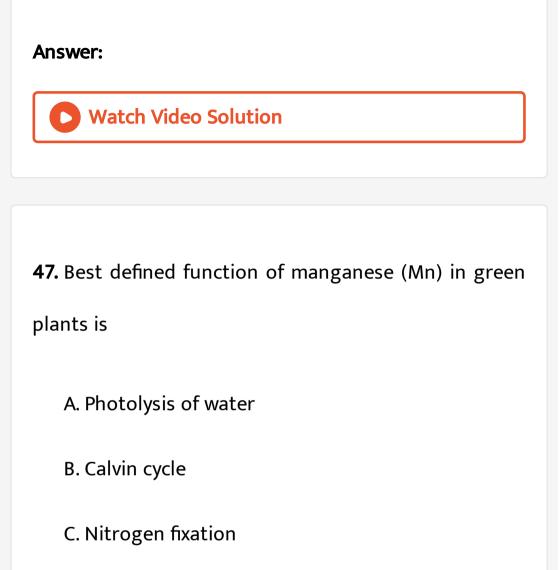
**46.** A process that makes important difference between  $C_3$  and  $C_4$  plant is:

A. Transpiration

B. Glycolysis

C. Photosynthesis

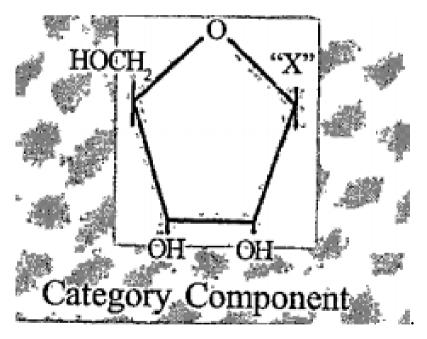
D. Photorespiration



D. Water absorption



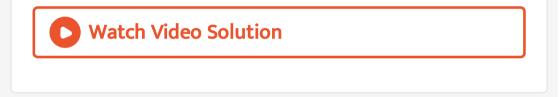
**48.** Given below is the diagrammatic representation of one of the categories of small molecular, weight organic compounds in the living tissues. Identify the categor shown and the one blank component 'X' in it:



A. Cholesterol Guanine

- B. Amino acid  $NH^2$
- C. Nucleotide Adenine
- D. Nucleoside Uracil

### Answer:



**49.** Which one of the following microbes forms symbiotic association with plants and helps them in their nutrition?

A. Azotohacter

B. Aspergillus

C. Glomus

D. Trichoderma

## Answer:

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**50.** Which one single organism or the pair of organism is correctly assigned to its or their named taxonomic group:

A. Paramecium and Plasmodium belong to the same kingdom as that of Penicillium

B. Lichen is a composite organism formed form the

symbiotic association of an algae and a protozoan

C. Yeast used in making bread and beer is a fungus

D. Nostoc and Anabaena are examples of protista

#### Answer:



51. Water containing cavities in vascular bundles are

found in:

A. Sunflower

B. Maize

C. Cycas

D. Pinus

**Answer:** 

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52. Lenticles are involved in:

A. Transpiration

- B. Gaseous exchange
- C. Food transport

D. Photosynthesis

### Answer:



53. Transition state structure of the substrate formed

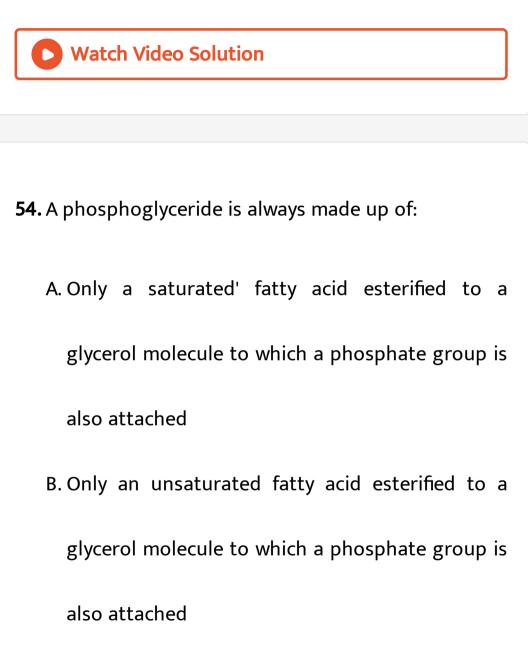
during an enzymatic if each reaction is:

A. Transient but stable

B. Permanent but unstable

C. Transient and unstable

D. Permanent and stable



C. A saturated or unsaturated fatty acid esterifiedto a glycerol molecule to which a phosphategroup is also attachedD. A saturated or unsaturated fatty acid esterified

to a phosphate group which is also attached to a

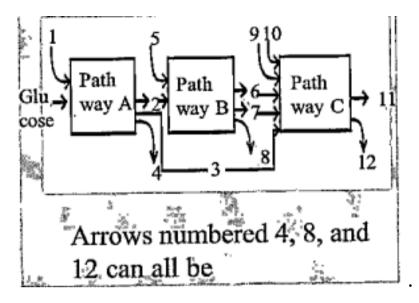
glycerol molecule

# Answer:

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**55.** The three boxes in this diagram represent the three major biosynthetic pathways in aerobic

respiration . Arrows numbered 4,8,and 12 can all be:



### A. NADH

### B. ATP

 $\mathsf{C}. H_2 O$ 

D.  $FAD + \text{ or } FADH_2$ 

### **Answer:**

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# 56. The abundant intracellular cation is

A.  $Na^+$ 

B.  $Ca^{++}$ 

C.  $H^+$ 

D.  $K^+$ 



57. The first stable product of fixation of atmospheric

nitrogen in leguminous plants is......

A.  $NO_2^-$ 

B. Ammonia

 $\mathsf{C.}\,NO_3^+$ 

D. Glutamate



58. Which one of the following is not used for exsitu

plant conservation?

A. Field gene banks

B. Seed banks

C. Shifting cultivation

D. Botanical Gardens

### **Answer:**



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59. Macro molecule chitin is:

A. Nitrogen containing polysaccharide

- B. Phosphorus containing polysaccharide
- C. Sulphur containing polysaccharide
- D. Simple polysaccharide

# Answer:

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**60.** In plant breeding programmes, the entire collection (of plants/seeds) having all the diverse alleles for all genes in a given crop is called:

A. Selection of superior recombinants

B. Cross - hybridisation among the selected parents

- C. Evaluation and selection of parents
- D. Germplasm collection

### **Answer:**

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**61.** The plant body is thalloid in:

A. Funaria

B. Sphagnum

C. Salvinia

# D. Marchantia

# Answer:

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62. Specialized cells for fixing atmospheric nitrogen in

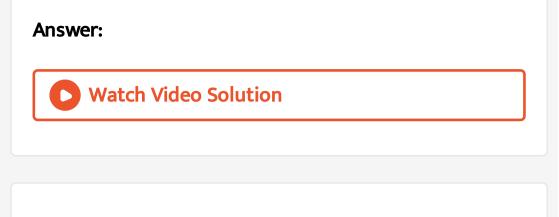
Nostoc are:

A. Akinetes

B. Heterocysts

C. Hormogonia

D. Nodules



**63.** Which one of the following type of plastids does not contain stored food material?

A. Amyloplasts

B. Chromoplasts

C. Elaioplasts

D. Aleuroplasts



64. Which two distinct microbial processes are responsible for release of fixed' nitrogen as dinitrogen gas  $(N_2)$  to the atmesphere?

A. Anaerobic ammonium oxidation, and denitrification

B. Aerobic nitrate oxidation, and nitrite reduction

C. Decomposition of organic nitrogen, and conversion of dinitrogen to ammonium

compounds

D. Enteric fermentation in cattle, and nitrogen

fixation by Rhizobium in root nodules of legumes

### Answer:



**65.** Which of the following best illustration FEEDBACK in development?

A. As tissue (X) develops, it secrets something that

slows down the growth of tissue (Y).

B. Tissue (X) secretes RNA which changes the

development of tissue (Y)

C. As tissue (X) develops, it secretes enzymes that

inhibit the development of tissue (Y)

D. As tissue (x) develops, it secretes something that

induces tissue (Y) to develop

#### Answer:

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**66.** Which enzymes are likely to act on the baked potatoes eaten by a man , starting from the mouth and as it moves down the alimentary canal?

A. salivary maltase - carboxypeptidase-trypsinogen

Β.

Pancreatic any lase-salivary any lase-lip as estimates

C. `disacrides- maltase - lipases - nucleases

D. Salivary amylase - pancreatic amylase -

disaccharides

#### **Answer:**



**67.** When man eats fish which feeds on zooplankton which have eaten small plants, the producer in the chan is:

A. Zooplankton

**B. Small plants** 

C. Fish

D. Man

## Answer:



68. Tracheids differ from other treachery elements in

A. Having casparian strips

B. Being imperforate

- C. Lacking nucleus
- D. Being lignified

## Answer:

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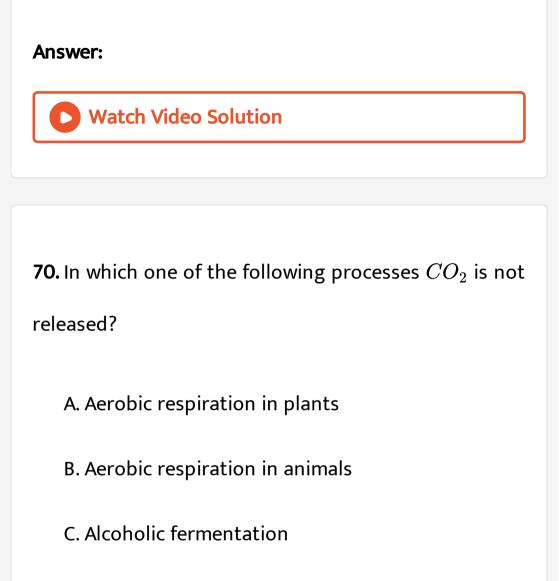
**69.** Deficiency symptoms of nitrogen and potassium are visible first in ......

A. Senescence leaves

B. Young leaves

C. Roots

D. Buds



D. Lactate fermentation



71. Anoxygenic photosynthesisis characteristic of

A. Rhodospirillum

B. Spirogyra

C. Chlamydomonas

D. Ulva



**72.** Select the option which is not correct with respect to enzyme action-

A. Substrate binds with enzyme at its active site

B. Addition of lot of succinate does not reverse the

inhibition of succinic dehydrogenase by

malonate

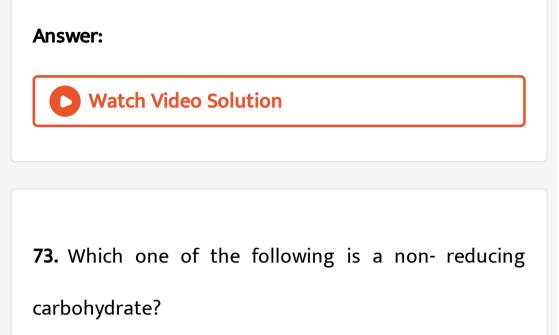
C. A non- competitive inhibitor binds the enzyme at

a site distinct from that which binds the

substrate

D. Malonate is competitive inhibitor of succinic

dehydrogenase



A. Maltose

B. Sucrose

C. Lactose

D. Ribose 5 - phosphate

## Answer:



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**74.** In which of the following gametophyte is not independent free living:

A. Funaria

B. Marchantia

C. Pteris

D. Pinus

Answer:

Watch Video Solution

**75.** Transpiration and root pressure cause water to rise

in plants by

A. Pulling it upward

B. Pulling and pushing it, respectively

C. Pushing it upward

D. Pushing and pulling it, respectively



**76.** Minerals known to be required in large amounts for plant distinct from that which binds the substrate growth include:

A. Phosphorous, potassium, sulphur, calcium

B. Calcium, magnesium, manganese, copper

C. Potassium, phosphorus, selenium, boron

D. Magnesium, sulphur, iron, zinc

#### Answer:

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**77.** What case a green plant exposed to the light on only one side to bend towardsthe sourceof light as it growns?

A. Green plants need light to perform photosynthesis B. Green plants seek because they are phototropic C. Light stimulates plant cells on the lighted side to grow faster D. Auxin accumulates on the shaded side, stimulating greater cell elongation there



78. In a ring girdled plant:

A. The shoot dies first

B. The root dies first

C. The shoot and root die together

D. Neither root nor shoot will die

## Answer:

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**79.** Typical growth curve in plants is:

A. Sigmoid

B. Linear

C. Stair-steps shaped

D. Parabolic

### Answer:



**80.** Which one gives the most valid and recent explanation for stomatal movements?

# A. Transpiration

- B. Potassium influx and efflux
- C. Starch hydrolysis
- D. Guard cell photosynthesis

### Answer:

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81. The chitinous exoskeleton of arthropods is formed

by the polymerisation of,

A. D - glucosamine

B. N-acetyl glucosamine

C. lipoglycans

D. keratin sulphate end chondroitin sulphate

### Answer:



82. A column of water within xylem vessels of tall trees

does not break under its weight because of:

A. Tensile strength of water

B. Lignification of xylem vessels

C. Positive root pressure

D. Dissolved sugars in water

Answer:
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<b>83.</b> Chromatophores takes part in:
A. Growth
B. Movement
C. Respiration
D. Photosynthesis
Answer:

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**84.** The oxygen evolved during photosynthesis comes from water molecules . Which one the following pair of elements is involved in this reaction?

A. Manganese and Potassium

B. Magnesium and Molybdenum

C. Magnesium and Chlorine

D. Manganese and Chlorine

Answer:

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**85.** Industrial melanism is an example of:

A. Natural selection

**B.** Mutation

C. Neo Lamarckism

D. Neo Darwinism

#### Answer:



**86.** Photosynthesis the light independent reactions take place at:

A. Photosystem - 1

B. Photosystem - II

C. Stromal matrix

D. Thylakoid lumen

### Answer:

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**87.** In which of the following both pairs have correct combination?

A. Gaseous nutrient cycle Carbon and sulphur

Sedimentary nutrient cycle - Nitrogen and

Phosphorus

B. Gaseous nutrient cycle Nitrogen and sulphur Sedimentary nutrient cycle - Carbon and Phosphorus C. Gaseous nutrient cycle Sulphur and Phosphorous Sedimentary nutrient cycle - Carbon and Nitrogen D. Gaseous nutrient cycle Carbon and Nitrogen Sedimentary nutrient cycle - Sulphur and phosphorus



88. Auxin can be bioassayed by:

A. Hydroponics

B. Potometer

C. Lettuce hypocotyl elongation

D. Avena coleoptile curvature



**89.** Whichof the following pairs of hormones are not antagonistic (having opposite'effects) to each other?

A. Relaxin - inhibin

B. Parathormone - calcitonin

C. Insulin- -Glucagon

D. Aldosterone-Atrial Natriuretic Factor



90. Emerson's enhancement effect and Red drop have

been instrumental in the discovery of

A. Oxidative phosphorylation

B. Photophosphorylation and non - cyclic electron

transport

C. Two photosystems operating simultaneously

D. Photophosphorylation and cyclic electron

transport

Answer:

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**91.** When does the growth rate of a population following the logistic model equal zero? The logistic model is given as  $D\frac{n}{dt} = Rn\left[\frac{1-N}{K}\right]$ 

A. when death rate is greater than birth rate

B. when N/K is exactly one

C. when N nears the carrying capacity of the

habitat

D. when N/K equals zero



92. Which of the following is required as inducer(s) for

the expression of Lac operon?

A. lactose and galactose

B. glucose

C. galactose

D. lactose

Answer:



93. Specialised epidermal cells surrounding the guard

cells are called:

A. Lenticels

- B. Complementary cells
- C. Subsidiary cells
- D. Bulliform cells

## Answer:



94. A typical fat molecule is made up of:

A. Three glycerol and three fatty acid molecules

B. Three glycerol molecules and one fatty acid

molecule

C. One glycerol and three fatty acid molecules

D. One glycerol and one fatty acid molecule

#### Answer:

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**95.** Water vapour comes out from the plant leaf through the stomatal opening. Through the same stomatal opening carbon dioxide diffuses into the plant during photosynthesis. Reason out the above statements using one of the following options:

A. One process occurs during day time, and other

at night

- B. Both processes cannot happen simultaneously
- C. Both processes can happen together because

the diffusion coefficient of water and  $CO_2$  is

different.

D. The above processes happen only during night time



96. Which one of the following statements is wrong?

A. Glycine is a sulphur containing amino acid

- B. Sucrose is a disaccharide
- C. Cellulose is a polysaccharide
- D. Uracil is a pyrimidine

#### Answer:



97. In a chloroplast the highest number of protons are

found in:

- A. Antennae complex
- B. Stroma
- C. Lumen of thylakoids
- D. Inter membrane space

## Answer:

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**98.** In which of the following, all three are macronutrients?

A. Nitrogen, potassium, phosphorus

B. Boron, zinc, manganese

C. Iron, copper, molybdenum

D. Molybdenum, magnesium, manganese

#### Answer:



**99.** Following are the two statements regarding the origin of life:The earliest organisms that appeared on the earth were non-green and presumably anaerobes.The first autotrophic organisms were the chemoautotrophs that never released oxygen Of the above statements which one of the following options is correct?

A. Both (a) and (b) are false

B. (a) is correct but (b) is false

C. (b) is correct but (a) is false

D. Both (a) and (bfare correct

### Answer:

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**100.** Depletion of which gas in the atmosphere can lead to an increased incidence of skin cancer?

A. Methane

B. Nitrous oxide

C. Ozone

D. Ammonia

### Answer:

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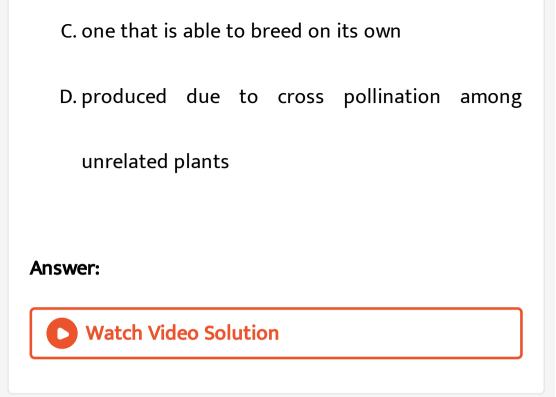
**101.** A true breeding plant is:

A. near homozygous and produces offspring of its

own kind

B. always homozygous recessive in its genetic

constitution



**102.** The label of a herbarium sheet does not carry

information on:

A. Local names

B. height of the plant

C. date of collection

D. name of collector

#### Answer:

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103. The balloon - shaped structures called tyloses?-

A. Are extensions of xylem parenchyma cells into

vessels

B. Are linked to the ascent of sap through xylem

vessels

C. Originate in the lumen of vessels

D. Characterize the sapwood

#### **Answer:**

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104. Which of the following biomolecules is common

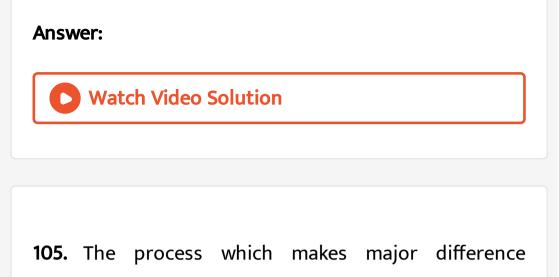
to breakdown of fats , carbohydrates and proteins?

A. Pyruvic acid

**B. Acetyl CoA** 

C. Glucose - 6 - phosphate

D. Fructose1,6- bisphosphate



between  $C_3$  and  $C_4$  plant is :

A. Photorespiration

**B.** Respiration

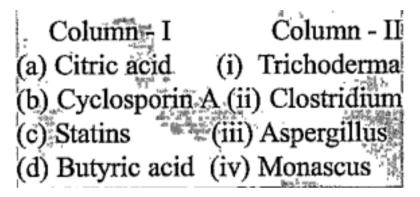
C. Glycolysis

D. Calvin cycle



106. Match column I with column II and select the

correct option using the codes given below:



A. a)-(i),b) -(iv), c)-(ii), d)-(iii)

B. a)-(iii), b) -(iv), c)-(i), d)-(ii)

C. a)-(iii), b)-(i), c) -(ii) ,d)-(iv)

D. a)-(iii) ,b) -(i), c)-(iv), d) -(ii)



**107.** Oxidative phosphorylation is:

A. Addition of phosphate group to ATP

B. Formation of ATP by energy released from

electrons removed during substrate oxidation

C. Formation of ATP by transfer of phosphate group

from a substrate to ADP

D. Oxidation of phosphate group in ATP

**108.** Which of the following describes the given graph correctly ?.

A. Endothermic reaction with energy A in absence

of enzyme and B in presence of enzyme

B. Exothermic reaction with energy A in. absence of

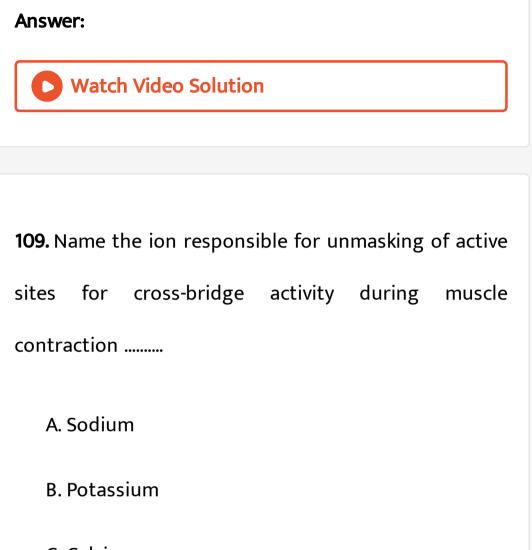
enzyme and B in presence of enzyme

C. Endothermic reaction with energy A in presence

of enzyme and B in absence of enzyme

D. Exothermic reaction with energy A in presence of

enzyme and B in absence of enzyme



C. Calcium

D. Magnesium



**110.** Lungs do not collapse between breaths and some air always remains in the lungs which can never be expelled became:

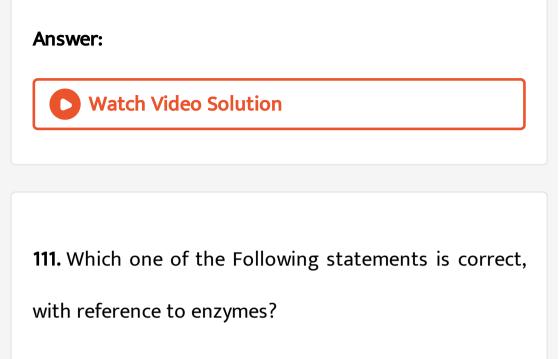
A. There is a positive intrapleural pressure

B. Pressure in the lungs is higher than the

atmospheric pressure

- C. There is a negative pressure in the lungs
- D. There is a negative intrapleural pressure pulling

at the lung walls



A. Holoenzyme = Apoenzyme + Coenzyme

B. Coenzyme = Apoenzyme + Holoenzyme

C. Holoenzyme = Coenzyme + Co - factor

D. Apoenzyme = Holoenzyme + Coenzyme

**112.** A symptote is a logistic growthcurve is obtained when:

A. K= N

B. KgtN

C. KltN

D. The value of 'r'approaches zero



**113.** Which of the following facilitates opening of stomatal aperture?

A. Decrease in turgidity of guard cells

B. Radial orientation of cellulose microfibrils in the

cell wall of guard cells

C. Longitudinal orientation of cellulose microfibrils

in the cell wall of guard cells

D. Contraction of outer wall of guard cells



**114.** Which statement is wrong for Krebs cycle ?

A. There is one point in the cycle where  $FAD^+$  is

reduced to  $FADH^2$ 

B. During conversion of succinyl CoA to succinic

acid, a molectde of GTP is synthesised

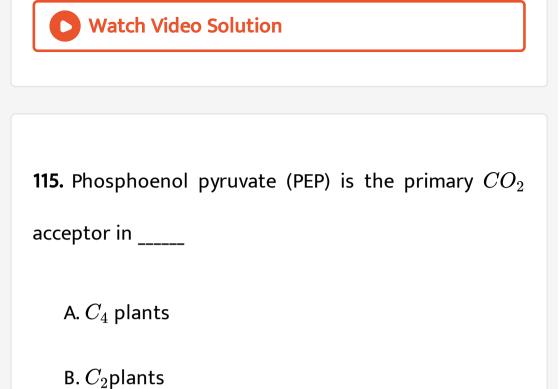
C. The cycle starts with condensation of acetyl

group (acetyl CoA) with pyruvic acid to'yield citric

acid

D. There are three points in the cycle where NAD+ is

reduced to  $NADH^+H^+$ 



- C.  $C_3$  and  $C_4$  plants
- D.  $C_3$  plants

