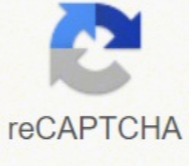




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**Open**

c =  $C_2H_5OH$

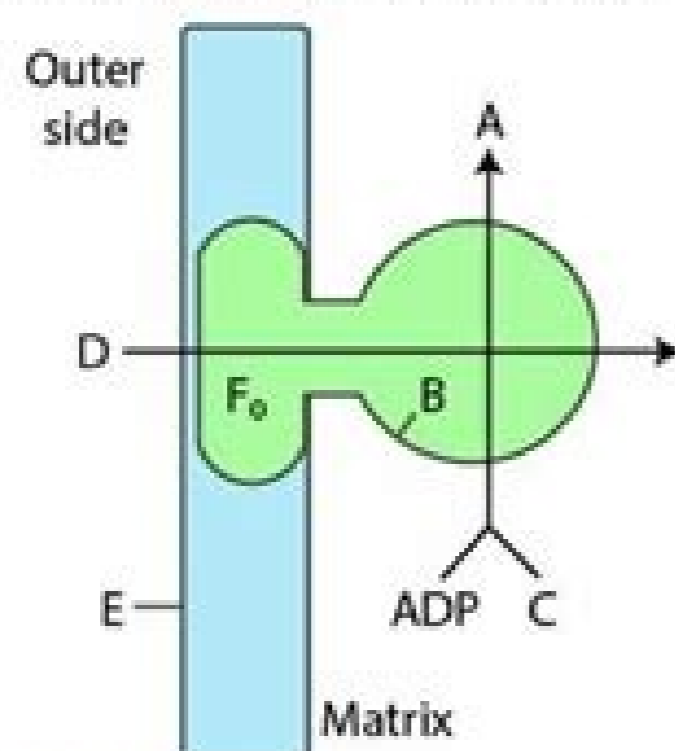
d = Lactic acid

The process is fermentation. Aerobic conditions are present in the cell. When there are anaerobic conditions the pyruvic acid gets converted to either lactic acid and it is known as homolactic fermentation. In some micro-organisms which are naturally anaerobic like yeast. They form  $C_2H_5OH$  and release  $CO_2$ . This is known as alcoholic fermentation.

Application:

- i) Fermentation is widely used for the production of alcoholic beverage products like Whisky, Beer, etc.
- ii) Fermentation is widely used for the production of acids like citrus acid, lactic acid, alpha-amylase, etc.

2. Given below is a diagram showing ATP synthesis during aerobic respiration, replace the symbols A, B, C, D and E by appropriate terms given in the box.



F<sub>1</sub>, Particle, Pi, 2H<sup>+</sup>, Inner mitochondrial membrane, ATP, F<sub>0</sub> particle, ADP

Solution:

A = ATP

B = F<sub>1</sub> particle

C = Pi

D = 2H<sup>+</sup>

E = inner mitochondrial membrane

3. Oxygen is critical for aerobic respiration. Explain its role concerning ETS.

Solution:

Oxygen plays a crucial role at the end of ETC because it removes the hydrogen from the electron transport system. It acts as a hydrogen acceptor in the electron transport chain. If oxygen is absent then the transportation of electron will not happen through the coenzymes and there will be no formation of proton pump and ATP will not be produced by oxidative phosphorylation.

4. Enumerate the assumptions that we undertake in making the respiratory balance sheet. Are

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**Biology**

(www.stwartacademy.com)  
(Chapter - 1) (The Living World)  
(Class - XI)

**Question 5:**  
Given below is the scientific name of Mango. Identify the correctly written name.

*Mangifera Indica*

*Mangifera indica*

**Answer 5:**  
In binomial system of nomenclature, the generic name of a species always starts with a capital letter whereas the specific name starts with a small letter. Therefore, the correct scientific name of Mango is *Mangifera indica*.

**Question 6:**  
Define a taxon. Give some examples of taxa at different hierarchical levels.

**Answer 6:**  
Each unit or category of classification is termed as a taxon. It represents a rank. For example, the basic level of classification is species, followed by genus, family, order, class, phylum or division, in ascending order. The highest level of classification is known as kingdom.

**Question 7:**  
Can you identify the correct sequence of taxonomical categories?

(a) Species → Order → Phylum → Kingdom

(b) Genus → Species → Order → Kingdom

(c) Species → Genus → Order → Phylum

**Answer 7:**  
The correct hierarchical arrangement of taxonomic categories in ascending order is

Species → Genus → Family → Order → Class → Phylum → Kingdom

Therefore, both (a) and (c) represent correct sequences of taxonomic categories. In sequence (b), species should be followed by genus. Therefore, it does not represent the correct sequence.

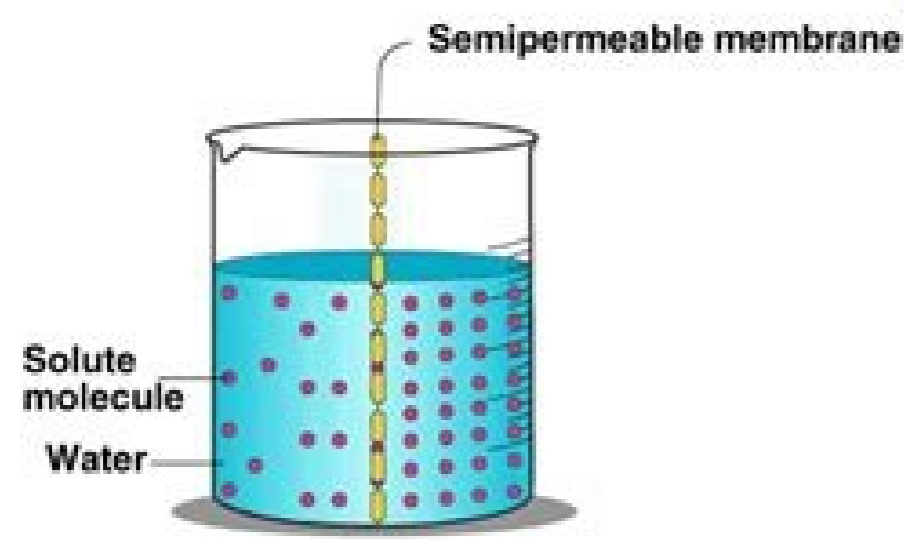
**Question 8:**  
Try to collect all the currently accepted meanings for the word 'species'. Discuss with your teacher the meaning of species in case of higher plants and animals on one hand and bacteria on the other hand.

**Answer 8:**  
In biological terms, species is the basic taxonomical rank. It can be defined as a group of similar organisms that are capable of interbreeding under natural conditions to produce fertile offspring. Therefore, a group of similar individuals that are respectively isolated form a species. Species can also be defined as group of individuals that share the same gene pool.

**Question 9:**  
Define and understand the following terms:

(i) Phylum (ii) Class (iii) Family

(iv) Order (v) Genus



- a. Movement of solvent molecules will take place from chamber A to B.
- b. Movement of solute will take place from A to B.
- c. Presence of a semipermeable is a pre-requisite for this process to occur.
- d. The direction and rate of osmosis depend on both the pressure gradient and concentration gradient.

Solution:

Option (b) is the answer.

11. Match the followings and choose the correct option

Column I	Column II
A. Leaves	i. Anti-transpirant
B. Seed	ii. Transpiration
C. Roots	iii. Negative osmotic potential
D. Aspirin	iv. Imbibition
E. Plasmolyzed cell	v. Absorption

Options:

- a. A-ii, B-iv, C-v, D-i E-iii
- b. A-iii, B-ii, C-iv, D-i E-v
- c. A-i, B-ii, C-iii, D-iv E-v
- d. A-v, B-iv, C-iii, D-ii E-i

Solution:

Option (a) is the answer.

12. Mark the mismatched pair

a. Amyloplast :	store protein granule
b. Elaioplast :	store oils or fats
c. Chloroplasts :	contain chlorophyll pigments.

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# BIOLOGY

**CLASS 11**

**Dr. D.K. Jain**



**Nageen Prakashan**





The poet sat down beside him, and he and Ernest talked together. Never before had the poet talked with a man like Ernest, so wise, and gentle, and kind. Ernest, on the other hand, was moved by the living images flung out of the poet's mind.

As Ernest listened to the poet, he imagined that the Great Stone Face was bending forward to listen too. He gazed into the poet's eyes.

"Who are you, my gifted guest?" he asked.

The poet laid his finger on the book that Ernest had been reading.

"You have read these poems," said he. "You know me, then, for I wrote them."

Again and again, Ernest examined the poet's features; he turned towards the Great Stone Face then back. He shook his head and sighed.

"Why are you sad?" inquired the poet.

"Because," replied Ernest, "all through life I have awaited the fulfillment of a prophecy, and when I read these poems, I hoped that it might be fulfilled in you."

"You hoped," answered the poet, faintly smiling, "to find in me the likeness of the Great Stone Face. I am not worthy to be its likeness."

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