

# SARALA BIRLA PUBLIC SCHOOL

Birla Knowledge City, Mahilong, Ranchi

CLASS-X, (2020-21)

Sub: Biology  
(Assignment-5)

1. Raw materials required in the autotrophic mode of nutrition involve:
  - i. Carbon dioxide and water
  - ii. Chlorophyll
  - iii. Nitrogen
  - iv. Sunlight

a) (i), (ii) and (iii)      b) (i) and (ii)  
c) (i), (ii) and (iv)      d) All (i), (ii), (iii) and (iv)
2. Sometimes we get painful cramps in our leg muscles after running for a long time due to the accumulation of:

a) Hydrochloric acid    b) Fat    c) Carbon dioxide    d) Lactic acid
3. Movement of the synthesized products from the leaves to the roots and other parts of a plant's body takes place through the phloem. This process is known as:

a) Translocation      b) Transpiration  
c) Transportation      d) Excretion
4. Which among the following procedures is used for cleaning the blood of a person by separating the waste substance from it?

a) Kidney transplant      b) Blood transfusion  
c) Dialysis                      d) Hydrolysis
5. Plants use the energy stored in ATP to accomplish the process of transportation of:

a) Water and minerals                      b) Oxygen

c) Water, minerals and food    d) Food

**6.** Which among the following is necessary to carry out the blood coagulation (clotting) in a cut or wound?

a) White Blood Cells            b) Blood plasma

c) Platelets                                  d) Red blood cells

**7.** Which of the following events in the mouth cavity will be affected if salivary amylase is lacking in the saliva?

a) Starch breaking down into sugars.

b) Proteins breaking down into amino acids.

c) Absorption of vitamins.

d) Fats breaking down into fatty acids and glycerols.

**8.** The breakdown of pyruvate to give carbon dioxide, water and energy takes place in

a) cytoplasm                      b) nucleoplasm

c) mitochondria            d) Golgi apparatus

**9.** A gland **not** associated with alimentary canal is

a) salivary gland    b) adrenal            c) pancreas            d) liver

**10.** Name the tube which connects the kidneys to the urinary bladder.

a) aorta    b) nephron    c) ureter            d) urethra

**11.** Which part of the alimentary canal receives bile from the liver?

a) Oesophagus            b) Stomach

c) Small intestine    d) Large intestine

**12.** Glycolysis process occurs in which part of the cell:

- a) Cytoplasm                      b) Mitochondria
- c) Nucleus                        d) Endoplasmic reticulum

**13.** The opening and closing of stomatal pore depends upon

- a) concentration of oxygen in stomata
- b) concentration of carbon dioxide in stomata
- c) temperature
- d) water in guard cells

*Direction (Q.14 and Q.15): The assertion and the reason are given. Read the statements carefully and choose the correct alternative from the following:*

- a) Both the Assertion and the Reason are correct and the Reason is the correct explanation of the Assertion.
- b) The Assertion and the Reason are correct but the Reason is not the correct explanation of the Assertion.
- c) Assertion is true but the Reason is false.
- d) Assertion is false but the Reason is true.

**14. Assertion:** When air is passed through lime water, lime water turns milky.

**Reason:** Air contains 78% nitrogen and 21% oxygen.

**15. Assertion:** Human heart does not allow mixing of oxygenated blood and deoxygenated blood.

**Reason:** Human heart has different chambers.

***Project:***

Draw a proper diagram to show the working of artificial kidney. Also mention how it is different from the kidney of a healthy person.

*\*Instructions-*

*i) Do in A-4 size sheet.*

*ii) Take help of NCERT Science Class-10 (page no. 111)*