

IMPORTANT ASSIGNMENT

SUBJECT: BIOLOGY

CLASS: Xth

Very short and short questions with answers

Q-1 Define photosynthesis.

Ans: It is the process by which green plants prepare their own food.

Q-2 Write the raw materials required for photosynthesis.

Ans: a) CO₂ from atmosphere.

b) Water from soil.

c) Chlorophyll present in chloroplast.

d) Light from sun.

Q-3 Explain the events of photosynthesis.

Ans: a) Absorption of light energy by chlorophyll.

b) Conversion of light energy into chemical energy.

c) Splitting of water molecules into hydrogen and oxygen.

d) Reduction of CO₂ into carbohydrates.

Q-4 Write the functions of following enzymes in digestion:

a) Pepsin: It is the protein digesting enzyme that digests proteins in food.

b) Amylase: It digests starch into maltose.

c) Trypsin: It digests proteins in food into peptone and peptides.

d) Lipase: It digests fats in food into fatty acids and glycerol.

Q-5 Write the functions of following:

a) Epiglottis : It covers the trachea when we swallow the food and does not allow the food to enter in the respiratory tract.

b) Rings of cartilage: It is present in trachea and prevents the air passage from collapsing when there is less air in it.

c) Alveoli: These are balloon-like structures present in lungs and provide large surface area for the exchange of gases.

d) Blood platelets: They clot the blood at the site of injury.

e) Auxin: It helps in primary growth of plants and photosynthesis.

f) Gibberellins: It helps in growth of stem.

g) Abscisic acid: It leads to wilting of leaves and dormancy of seeds.

h) Ethylene: It helps in ripening of fruits.

i) Testosterone: It helps in changes associated with puberty in males.

j) Estrogen: It helps in changes associated with puberty in females.

Q-6 How can amount of urine produced regulated?

Ans: a) It is regulated by selective reabsorption in tubule part of nephron.

b) It depends on how much water is there in body and how much dissolved waste is there to be excreted.

c) More water and dissolved waste in body will produce more urine and less water and dissolved waste will produce less urine.

Q-7 Define goiter.

Ans: Deficiency of iodine leads to swelling in neck which is called goiter.

Q-8 Define diabetes.

Ans: Deficiency of insulin hormone in body increases the blood sugar level which is called diabetes.

Q-9 State 10% energy law.

Ans: It states that during transfer of energy from one trophic level to another, only 10% of energy is stored at a level while 90% energy is lost during respiration, digestion in the form of heat.

Q- 10 Define biological magnification.

Ans: Accumulation of toxic substances in our food chain at different trophic level. The concentration of toxic substance increases with increase in trophic level.

Long questions (answers from notes)

Q-11 Distinguish between tropic and nastic movements.

Q-12 Write the functions of fore brain, mid brain and hind brain.

Q-13 Explain feedback mechanism with flowchart.

Q-14 Explain the transport of water and minerals in plants.

Q-15 Define food chain and explain its types with diagram.

Q- 16 Explain the causes and effects of ozone layer depletion.

Q-17 Explain the methods of conservation of forest.

Q- 18 Explain the methods of conservation of wildlife.

Q-19 Explain stakeholders with examples.

Q-20 Write a short note on the Chipko Andolan and Bishnoi movement.

IMPORTANT DIAGRAMS:

- a) Human heart
- b) Human excretory system
- c) Human nephron
- d) Human brain
- e) Human neuron

