

Revision Sheet Periodic Test

Class 10 Biology 2018-2019

Life Processes

1. Define photosynthesis. Write down the balanced chemical equation. State the major events of the process.
2. Why is pancreas known as the heterocrine gland?-Explain.
3. Differentiate between- a) Inhalation and Exhalation
b) External and Internal Respiration
c) Egestion and Excretion
d) Aerobic and anaerobic Respiration
e) Arteries and Veins
f) Pulmonary and Systemic Respiration
4. How is the structure of the Malpighian body appropriate for the formation of urine? Explain.
5. How are lungs designed in human beings to maximize the area for exchange of gases?
6. Explain the functioning of a dialysis machine.
7. State the role of ribcage and diaphragm.
8. Diagrams-T.S. of a leaf, open and closed stomata, structure of a chloroplast, holozoic nutrition in amoeba and Digestive system in human beings; Respiratory system and diffusion of gases through alveoli; structure of heart, double circulation, blood clotting; RBC, WBC and platelets, Excretory System and structure of a Nephron.

Control and coordination

1. Explain the role of auxin in Phototropism and thigmotropism.
2. How does our body respond when adrenaline is secreted into the blood?
3. Why is the use of iodised salt advised?
4. State the functions of –Pons, Medulla, Hypothalamus, cerebellum and cerebrum.
5. What is the role of brain in reflex action?
6. Design experiments to demonstrate phototropism, Hydrotropism and geotropism.
7. Draw a reflex arc and explain the same.
8. Diagrams-Neuron, Synaptic Transmission, Brain and reflex arc.

Reproduction

1. DNA copying is essential in reproduction-Why?
2. How do variations arise? Why are they important for a species?
3. Regeneration cannot be similar to reproduction-explain why?
4. Differentiate between- a) binary and multiple fission
b) Asexual and sexual reproduction
c) Fragmentation and regeneration
d) Budding and spore formation
5. Diagrams-Budding in Yeast and Hydra, Binary fission in Amoeba, Spore formation.