



TEST PAPER: BIOLOGY

Time: 45 Minutes

Class: CBSE 10

Max. Marks: 30 Marks

Date: 19th Sept 2018

Marking Scheme: All questions carry 10 marks each. Subparts (A) and (B) carry 3 marks each and subpart (C) carries 4 marks.

Question 1:

A. Give the functions of:

1. Guard cells.
2. Gastric hydrochloric acid.
3. Abscisic acid.

B. Give reason.

1. In single celled organisms diffusion is sufficient to meet all their requirements of food, exchange of gases or removal of wastes but it is not in case of multicellular organisms.
2. Reflex action is quick & involuntary.
3. Alveoli can facilitate proper gaseous exchange.

C. Answer the following.

- (a) Explain how the exchange of gases occurs in plants across the surface of leaves.
- (b) How are water and minerals transported in plants?

Question 2.

A. Differentiate

1. Dendrite & axon.
2. End products of aerobic & anaerobic respiration.
3. Plasma & lymph.

B. Fill in the blanks with proper words/phrases.

1. _____ is an example of plant growth hormone.
2. Hypo secretion of _____ causes goiter.
3. _____ are the smallest blood vessels.
4. ___ & ___ are two useful waste products of plants.
5. _____ is the vessel that carries blood to the lungs from the heart.

B. What is double circulation? Describe the whole blood circulation process in detail.

C. How does our body respond when adrenaline is secreted into the blood? Describe in detail.

Question 3.

A. 1. Name the following.

1. Enzyme in saliva.
2. Two hormones secreted by gonads.
3. Movement of roots towards water.
4. Gaseous exchange takes place in these small structures of lungs.
5. Mechanism that triggers the production of hormones in body.

B. Explain the result of hypo secretion of these glands/hormones.

1. Pancreas.
2. Thyroid.
3. Cytokinin.

C. Solve the questions.

1. Explain artificial dialysis.
2. What is nastic movement?
3. Why pituitary is called master gland? Name its secretion responsible for growth & explain its hypo or hyper secretion effects on human body.

OPTIONAL-

Q.4. A. Answer the following.

1. Can the frequency of an inherited trait change over generations? Give an example.
2. Why is the extinction of certain species a cause of worry from the point of view of genetics?
3. What is law of segregation? Who stated it? Explain with a suitable example.

B. Define.

1. Spaciation.
2. Heredity.
3. Genes.

C. Differentiate.

1. Homologous and analogous characters.
2. Acquired & inherited traits.
3. Pair of sex chromosomes in males & females.