

Xth

CBSE

CT-4

SOLUTION

Biology

Ans 1- A stimulus may be an external or internal factor which initiates a response in a living organism.

Ans 4. Adrenalin (Epinephrine) → Controls emotions, fear, anger, blood pressure, heart beat, respiration and relaxation of smooth muscles.

Ans 7. Vegetative propagation in plants is a method of asexual reproduction in which the parts other than seeds are used as propagules.

Some most common natural methods of vegetative propagation in plants are:

(i) Modified Tuberos roots → rhizomes of ginger, tuber (potato), bulbs of garlic, onion etc.

(ii) Some plants develop adventitious buds on their leaves which develop into new plants. eg Bryophyllum.

Vegetative propagation is practiced for growing such plants which usually do not produce seeds or produce non-viable seeds.

12(i) Blood - It consists of plasma ~~& cor~~ and corpuscles (RBCs, WBCs and platelets)

(a) Plasma - It is the liquid part of the blood which helps in transport of hormones, nutrients, excretory matter, etc.

(b) RBCs → Help in transport of respiratory gases - O_2 and CO_2 .

(c) WBCs → Act as soldiers of the body.

(d) Platelets → Helps in blood clotting

*~~(e)~~

(ii) Fishes show single circulation.

Fishes heart is two-chambered - one atrium and one ventricle. Fish heart represents single blood circulation as the blood passes only once through the heart during a single cardiac cycle.