

24/11/2020
TUESDAY

BIOLOGY

STD - X
class - 31

Assignment

1) Prepare a short note on Blood clotting and defense mechanism.

Ans) Blood clotting is a defense mechanism to prevent the loss of blood through wounds. The cells of the wounded region get destroyed to form thromboplastin. Thromboplastin in the presence of calcium ions and vitamin K converts the protein prothrombin to thrombin. Thrombin converts fibrinogen in the blood plasma to fibrin. Blood clot is formed by the entangling of platelets and red blood cells in the fibrin network.

2) Prepare a note on Fever and defense mechanism.

Ans) Pathogen enter the body through the wound. The presence of toxin produced by the pathogen stimulates the white blood cells. The chemical substances produced by the white blood cells raises the body temperature. The rise in body temperature reduces the rate of multiplication of pathogens. This increases phagocytosis.