

1) Differentiate between artery and veins

### Veins

i) Carries blood - from tissues of body to the heart

ii) Are usually found closer - beneath the skin

iii) Are less muscular - than arteries

iv) Collapse - if blood flow stops.

## Arteries

- i) Carries blood back away from heart to tissues of the body.
  - ii) Found deeper within the body
  - iii) Are more muscular than veins.
  - iv) Would generally remain open even if flow stops because of the muscular structure.
- 2) Why is guttation? why is guttation considered to be harmful to plants if occurs regularly?

The secretion of droplets of water from the pores of plants is called guttation.

Guttation is considered to be harmful to plants if occurs regularly because if it will loose all the water from it then no water would be left for the process of photosynthesis.

3) Give 2 examples each

a) latex - Mulberry family. (Moraceae)  
Milkweed family. (Asclepiadaceae)

b) alkaloids - Morphine (Papaver somniferum)  
Nicotine (Nicotiana glauca)

4) How does lymph help in providing immunity to our body?

The lymphatic system plays an important role in providing immune responses to harmful micro-organisms and toxins that enter the body. It produces and releases lymphocytes and other immune cells that monitor and then destroy the foreign invaders that may enter your body.