













## Answer 5

### (a)

(i) Adaptations of ileum for the absorption of digested food:

1. It is very long to provide more surface area for absorption.
2. The presence of a large number of villi further increases the surface area.
3. It has a single-cell epithelium.
4. It has a narrow lumen for slow movement of food, allowing absorption.

(ii) Seeds that are sown very deep inside the soil fail to germinate because:

1. They have no proper supply of oxygen (for respiration).
2. There is insufficient pushing force in the embryonic parts (hypocotyl or epicotyl) to break through the upper layers of soil.

### (b)

(i)

<b>Germination (Hypocotyl/Epicotyl)</b>	<b>Viviparous germination</b>
1. The seed germinates away from the mother plant.	1. The seed germinates inside the fruit, while it is still attached to the mother plant.
2. The developing embryo derives food from the cotyledons.	2. The developing embryo derives food from the fruit.
3. E.g. Bean seed, Maize grain	3. E.g. Rhizophora, Sonneratia

(ii) The three ways in which the eyes can be protected from infection:

1. Wash your eyes daily with warm water.
2. Do not read in dim light.
3. Avoid watching too much television.

