

**BCM SCHOOL**  
**BASANT AVENUE, DUGRI ROAD, LUDHIANA**  
**Class VII SCIENCE**  
**Answer Key**

**Date: September 3, 2022**

1. b
2. b
3. b
4. a
5. c

6. After surgical removal of gall bladder, 'A' would face problems in digestion of fat and fatty substances when consumed in bulk. This is because the bile juice stored in the gall bladder helps in digestion of fats.

7. Steel is a good conductor of heat, so it quickly transfers heat to our hand. Plastic is a poor conductor (insulator), so it does not transfer much heat. Therefore, the steel glass feels hotter.

8. A. The winds are called Sea Breeze (day) and Land Breeze (night).

B. During the daytime, the land heats up faster than the sea. The air above the land becomes warm, rises and the cooler air from the sea moves towards the land, forming a Sea Breeze.

At night, the land cools faster than the sea. The air above the sea remains warmer and rises, the cooler air from the land moves towards the sea, forming a Land Breeze.

Sea Breeze



Land Breeze

9. a. The plant was kept in the dark so that all previously stored starch would be used up. This ensures that any starch formed later is only due to photosynthesis.

- b. The part of the leaf covered with black paper will not turn blue-black, because no sunlight could reach it and hence no photosynthesis occurred there.
  - c. The uncovered part of the leaf will turn blue-black with iodine, showing the presence of starch. This proves that sunlight is essential for photosynthesis.
  - d. This experiment proves that plants prepare their own food by the process of autotrophic nutrition (photosynthesis).
10. a. Dialysis is needed when the excretory organ of humans, i.e. kidney becomes damaged or unfunctional due to some injury or infection.
- b. Excretion process removes the waste products released in body after the utilisation of food and other components. These products are toxic and may harm us if not removed from our body.
  - c. Kidney