

## **HOTS QUESTIONS FOR CLASS VI, 2017-18**

### **FLOWER**

1. What type of pollination can a hermaphrodite flower show? Give reasons for your answer.
2. What would happen if corolla was the outermost whorl of a flower and calyx the second?
3. Differentiate between A) ovule and pollen B) fate of androecium and gynoecium after fertilization.
4. Lotus and Vallisneria are both water plants. Yet they differ in their modes of pollination. How?

### **HABITAT AND ADAPTATION**

5. Why can polar bears not live in deserts?
6. Why do fishes and birds need to have a streamlined body?
7. Do all aquatic animals have gills? Justify your answer with suitable examples.
8. The oxygen content of mountain air is thin, yet mountain animals do not suffer from breathlessness. Why?
9. Why do camels have large and padded foot?
10. What would happen if mountain trees were not cone shaped?

### **FOOD**

11. A person eats healthy food full of all nutrients in the right amounts everyday. However, he does not ensure adequate consumption of fibres. What problems is he likely to suffer from?
12. Why are diseases like scurvy and goitre called deficiency diseases?
13. Convalescents need a protein rich diet. Why?
14. Deformities like bow legs and pigeon chest are a result of malnutrition. Justify the statement.
15. Mashed and boiled potatoes would turn blue black upon addition of iodine, whereas boiled eggs would not. State why.

### **MOVEMENTS OF THE BODY**

16. Owls can turn their heads in all directions. What kind of joint do they have in their neck which allow them to do so? Do humans also have the same joint in the neck?
17. What would happen if the joint between the upper jaw and lower jaw was a fixed one?
18. Why are vertebrae hollow?
19. The bones of the skull are the hardest of all bones. Why?
20. What would happen if the ends of bones were not covered with cartilage?