- 1. Answer the following
- a. If a trait A exists in 10% of a population of an asexually reproducing species and a trait B exists in 60% of the sa me population, which trait is likely to have arisen earlier?
- b. How does the creation of variations in a species promote survival?
- c. How do Mendel's experiments show that traits are inherited independently?
- d. A man with blood group A marries a woman with blood group O and their daughter has blood group O. Is this inf ormation enough to tell you which of the traits blood group A or O is dominant? Why or why not?
- 2.
- a. Explain sexual reproduction in flowering plants with diagram
- b. Why is vegetative propagation practised for growing some types of plants?
- c. Can you think of reasons why more complex organisms cannot give rise to new individuals through regeneration?
- 3.
- a. Explain excretion in human beings with diagram
- b. Draw schematic sectional view of human heart and explain.
- c. How is oxygen and carbon dioxide transported in human beings?
- d. How are the lungs designed in human beings to maximize the area for exchange of gases?
- 4. How can you prove experimentally that CO2 is needed for photosynthesis?