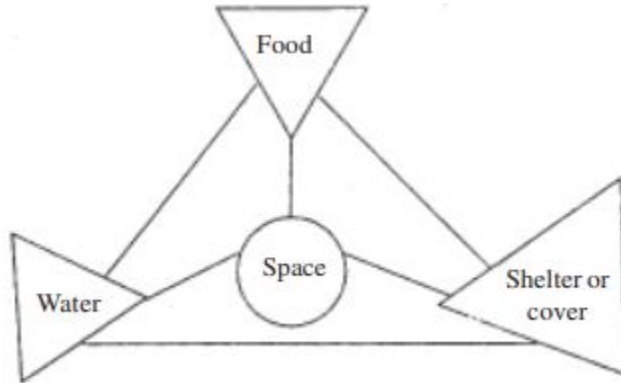


**National Institute of Open Schooling**  
**Senior Secondary Course: Environmental Science**  
**Lesson 4: Principles of Ecology**  
**Worksheet-4**

1. Explain with any two examples the figure given below.



2. Draw a flow chart for showing hierarchy interaction between different levels of ecological organization which includes living and non-living components of environment.
3. Why penguins, seals and polar bear do not live in our locality?
4. Do you think that any organism can survive without any relationships with other organisms after it is born? Give reasons in support of your answer.
5. How do different populations share the same habitat? Explain with suitable examples.
6. What happens when:
- Two different pests feed on the same plant.
  - Populations of cows of four varieties of a species which are allowed to inter breed with each other
7. The life of a dog is approximately 10 to 15 years. A female dog (bitch) has given birth to six to eight puppies at a time. Most of the puppies died before they reach this age. But population stays fairly stable from year to year. Explain the above in terms of natural selection.
8. Could a species become extinct if environmental changes occurred too rapidly? Explain with reasons.
9. Certain species of honey bees and butterflies frequently visit several flowers. How do flowers and these insects help each other? Name the type of interaction and explain the process of that interaction.
10. "Ecological Succession helps in maintaining equilibrium in an ecosystem." If yes, give reasons in support of your answer.