

**National Institute of Open Schooling**  
**Senior Secondary -Biology**  
**Lesson 20: Growth and Development in Plants**  
**Worksheet -20**

1. Define the terms Growth and Development.
2. Explain the following with examples from various plant tissues-
  - a) Differentiation
  - b) De-differentiation
  - c) Re-differentiation
3. Draw sigmoid growth curve and why in plants growth is always 'S' shaped?
4. Differentiate between photoperiodism and Vernalisation
5. Write a note on the following-
  - a) Apical Dominance
  - b) Long Day Plant (LDP) and Short Day Plant(SDP)
  - c) Auxanometer
6. Explain the role of Abscissic acid as stress hormone
7. Explain different types of seed germination with suitable examples?
8. Enlist the applications of the following:
  - a) Cytokinins
  - b) Gibberlins
  - c) Ethylene
9. Discuss the role of various factors which affects plant growth? How do plant growth regulators affect plant morphogenesis?
10. Give two examples of turgor movements.