

| 9. Fronts  | 152           |
|--|---------------|
| 9.1 Condition for Frontogenesis  |               |
| 9.2 Classification of Fronts   |               |
| 10. Jet Streams  | 154           |
| 10.1 Properties of Jet Stream  |               |
| 10.2 Types of Jet Streams  |               |
| 10.3 Significance of Jet Streams   |               |
| 11. Cyclones   | 156           |
| 11.1. Temperate cyclones   |               |
| 11.1.1 Characteristics   |               |
| 11.1.2 Genesis   |               |
| 11.1.3 Significance of Extratropical cyclones on India's weather conditions        |               |
| 11.2 Tropical Cyclones   |               |
| 11.2.1 The conditions favourable for the formation and intensification of tropical | al storms are |
| 11.2.2 Source of Energy for Tropical Cyclones                                      |               |
| 11.2.3 Salient features of Tropical Cyclones                                       |               |
| 11.2.4 Structure of Tropical Cyclone   |               |
| 11.2.5 Movement of Tropical Cyclones   |               |
| 11.2.6 Recurving Cyclones  |               |
| 11.2.7 Types of Tropical Cyclones  |               |
| 11.2.8 Impacts of Tropical Cyclones on India                                       |               |
| 11.2.9 Cyclone Prone Area of India   |               |
| 11.2.10 Contrast between Temperate Cyclones and Tropical Cyclones                  |               |
| 11.2.11 Weather Conditions   |               |
| 11.2. 12 Rainfall  |               |
| 11.2.13 Tropical Cyclones and Climate Change                                       |               |
| 11.3 Thunderstorms   |               |
| 11.3.1 Structure of Thunderstorm   |               |
| 11.3.2 Thunderstorm and Weather  |               |
| 11.4 Tornado   |               |
| 11.5. Waterspouts  |               |
| 11.6 Anticyclones  |               |
| 11.7 Naming of Tropical Cyclones   |               |
| 12. World Climate  | 165           |
| 12.1 Climate   |               |
| 12.2 Factors affecting Climate   |               |
| 12.3 Koeppen's Scheme of Classification of Climates                                |               |