CROPPING PATTERN : The yearly sequence and spatial arrangement of crops or of crops and fallow on a given area.

CROPPING SYSTEM : The cropping patterns used on a farm and their interaction with farm resources, other farm enterprises, and available technology which determine their make up

MULTIPLE CROPPING : Growing two or more crops on the same field in a year.

TYPES OF MULTIPLE CROPPING :

- 1) INTERCROPPING : Growing two or more crops simultaneously on the same field in definite row pattern.
 - (a) Mixed intercropping: Growing two or more crops simultaneously with no distinct row arrangement. Also referred to as mixed cropping
 - (b) Row intercropping: Growing two or more crops simultaneously where one or more crops are planted in rows. Often simply referred to as intercropping.
 - (c) Strip intercropping: Growing two or more crops simultaneously in strips wide enough to permit independent cultivation but narrow enough for the crops to interact agronomically.
 - (d) Relay intercropping: Growing two or more crops
 simultaneously during the part of the life cycle of each.
 A second crop is planted after the first crop has reached

its reproductive stage of growth, but, before it is ready for harvest· Often simply referred to as relay cropping· Advantages of intercropping

• Better use of growth resources including light, nutrients and water

- Suppression of weeds
- Yield stability; even if one crop fails due to unforeseen situations, another crop will yield and gives income
- Successful intercropping gives higher equivalent yields
 (yield of base crop + yield of intercrop), higher cropping
 intensity
- Reduced pest and disease incidences
- one crop provide shelter and physical support to other crop.

Disdvantages of intercropping

- Creates obstruction in the free use of machines for intercultural operations.
- Sometimes yield decreases because of adverse competition effect.

2) **SEQUENTIAL CROPPING** : Growing two or more crops in sequence on the same field in a farming year. The succeeding crop is planted after the preceding crop has been harvested.

- a) Double, triple and quadruple cropping: Growing two, three and four crops, respectively, on the same land in a year in sequence.
- b) Ratoon cropping: The cultivation of crop re-growth after harvest.

The various terms defined above bring out essentially two underlying principles, that of growing crops simultaneously in mixture, i·e·, intercropping; and of growing individual crops in sequence, i·e·, sequential cropping· The cropping system for a region or farm may comprise either or both of these two principles·