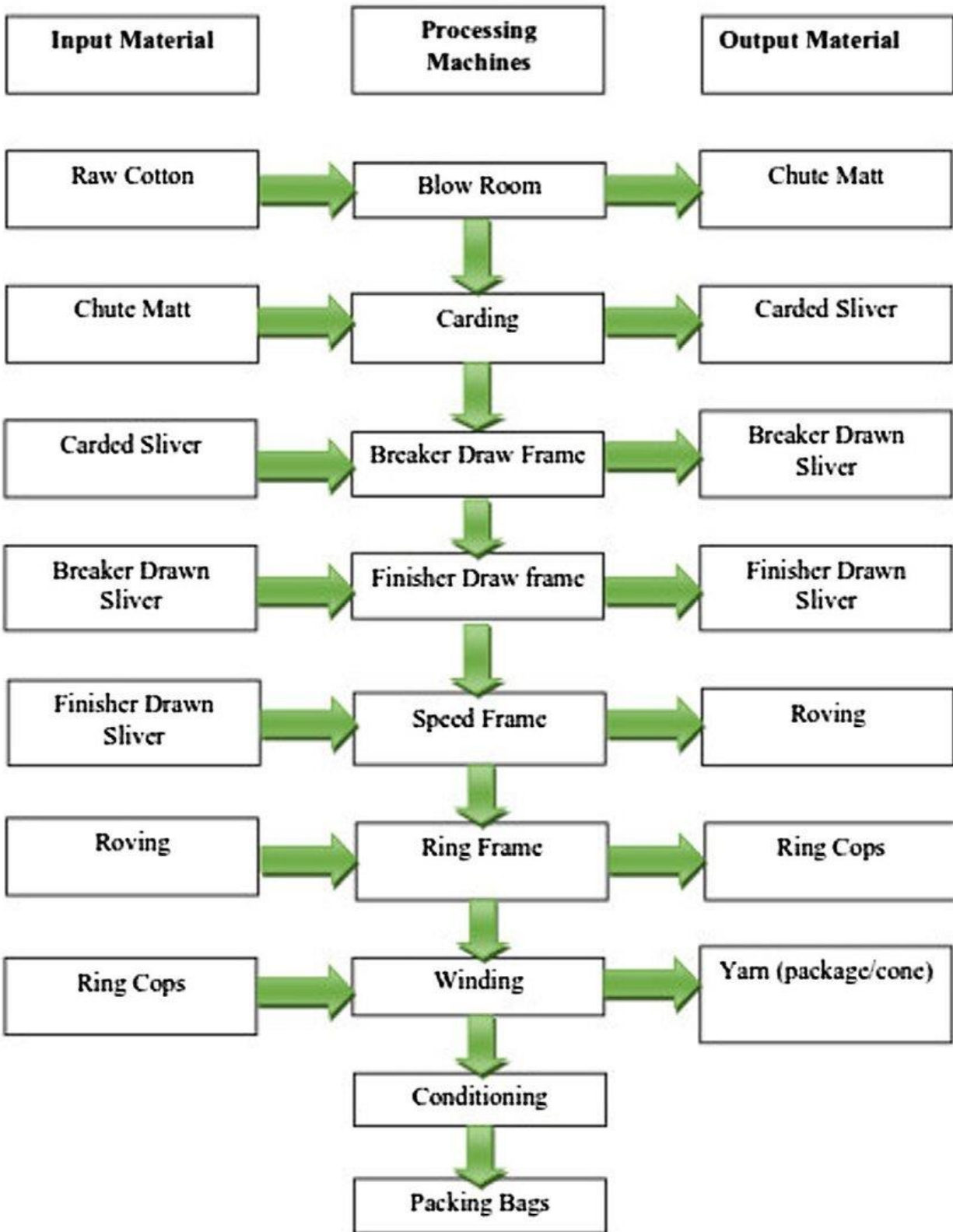


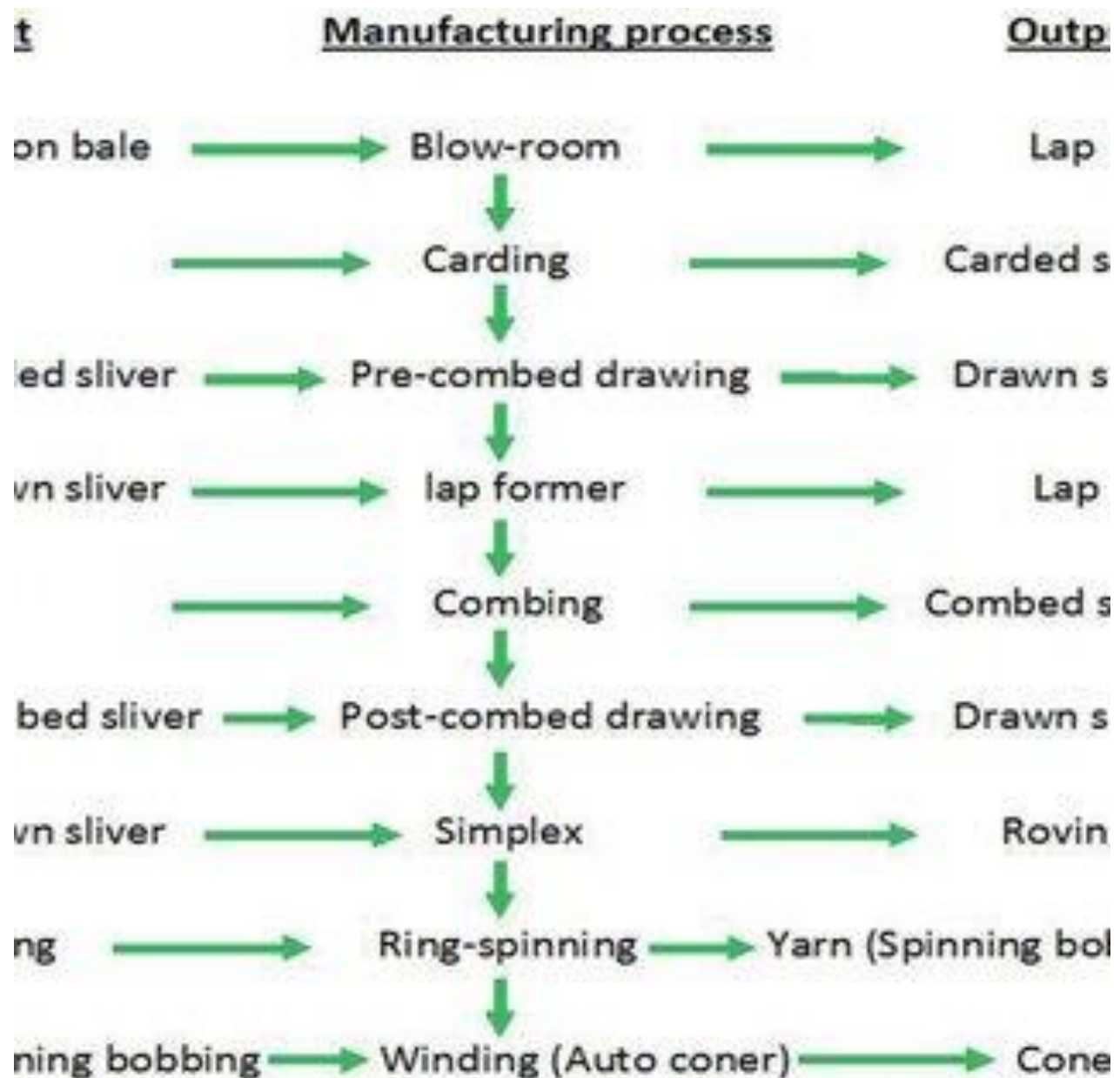
## 1. Understand the flow-chart of yarn manufacturing.

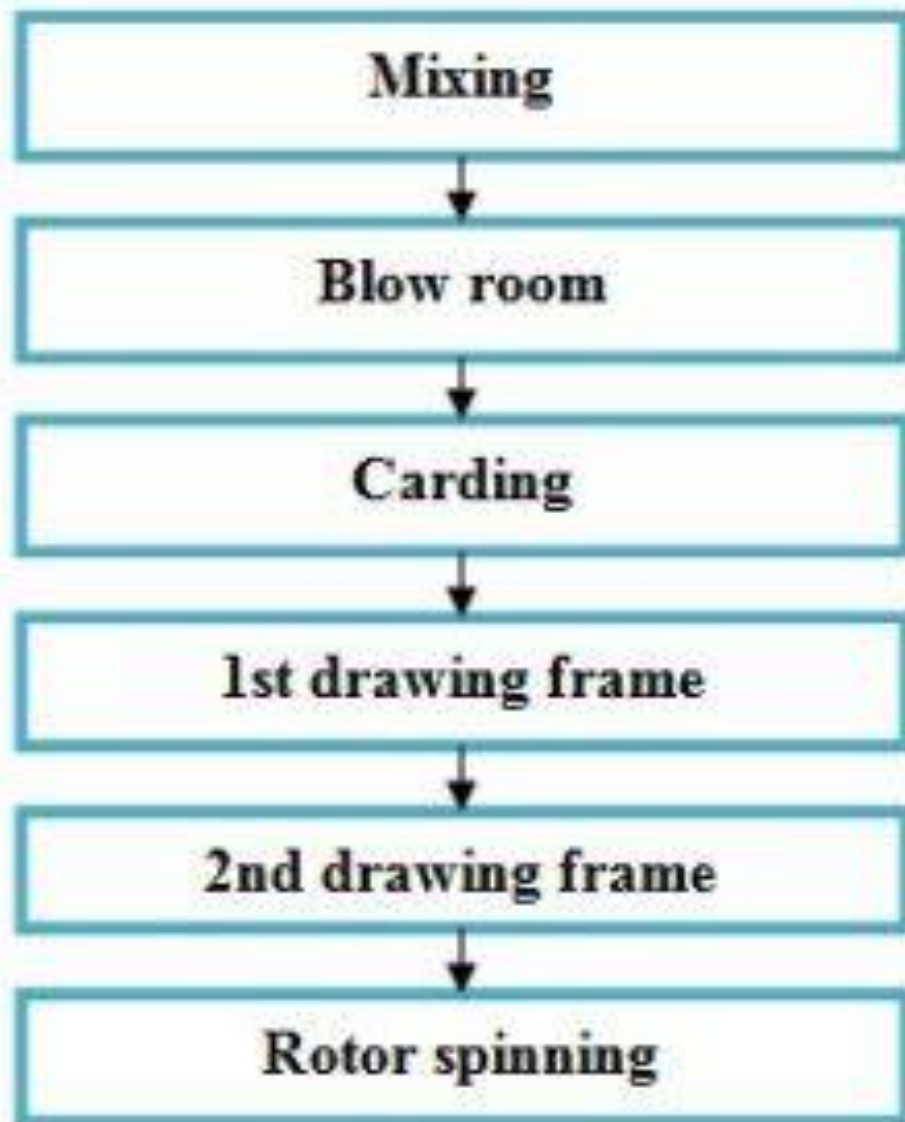
- 1.1 Define flow-chart and its importance.
- 1.2 Mention the flow-chart of cotton yarn (Carded) Manufacturing.
- 1.3 Mention the flow-chart of cotton yarn (Combed) Manufacturing.
- 1.4 Mention the flow-chart of rotor yarn spinning.
- 1.5 Mention the flow-chart of Jute yarn Manufacturing.
- 1.6 Mention the flow-chart of carpet backing cloth (CBC) or Hessian warp.
- 1.7 Mention the flow-chart of sacking warp yarn.
- 1.8 Mention the flow-chart of sacking weft yarn.

### What is Yarn manufacturing?

**Yarn manufacturing** is a sequence of processes that convert raw cotton fibers into **yarn** suitable for use in various end-products. A number of processes are required to obtain the clean, strong, uniform **yarns** required in modern textile markets.







### **Jute Carpet Backing Cloth (C B C)**

#### **Specification:**

Jute Carpet Backing Cloth or CBC as it is commonly known as, commensurate to its name, is used as base material for carpets or as the backing material of carpets. Manufacturers and exporters supply CBC in large quantities to many carpet industries throughout the world. Carpet Backing Cloth is mainly used and is in great demand in the carpet industry. CBC calls for export oriented market and jute mills in India are well known in the export market for their produce.

Table 1: Range of yarns spun from jute			
No	Yarn type	Linear density (Count)	
		Tex	lb/spy**
1	Fine jute yarns	60 - 103	1.75 - 3.0
2	Carpet yarns (CBC*)	120 - 205	3.5 - 6.0
3	Hessian warp	240 - 310	7 - 9
4	Hessian weft	240 - 410	7 - 12
5	Sacking warp	275 - 350	8 - 10
6	Sacking weft	700 - 1400	20 - 40
7	Carpet yarns	480 - 820	14 - 24
8	Jute blended yarns	50 - 275	1.5 - 8.0
*CBC - Carpet backing cloth, ** lb/ sp = Weight of yarn in pound of length of 14400 yards.			

### Different Types of Jute Yarn

The composite mills traditionally manufacture the following types of yarns-

1. Fine yarn of 120-224tex (3.5-6.5lb/spy) to be used for carpets and various non-traditional end products like decorative fabrics.
2. CBC yarn of 224-293tex (6.5-8.5lb/spy) for using as carpet backing cloth or very fine cloth.
3. Medium coarse yarn of 241-414tex (7-12lb/spy) for:
  - \* Hessian warp 241-310tex (7-9lb/spy)
  - \* Hessian weft 241-414tex (7-12lb/spy)
  - \* Sacking warp 276-345tex (8-10lb/spy)
  - \* Other type of end products like canvas.
4. Coarse yarn of 483tex and above (14lb/spy and above) for sacking weft and coarse end-products like matting.
5. Piled yarns or twines of different counts.