

## AGRICULTURAL IMPLEMENTS

1. The first operation in production of crop is **TILLAGE**.
2. **Rotary tillage** is tillage operations employing rotary action to cut, break and mix the soil.
3. An open trench left in between two adjacent strips of land after finishing the ploughing is called **Dead furrow**.
4. The weight of the puddler including its beam is within range of **30-40** kg only.
5. The **Mould board** is the curved part which lifts and turns the furrow slice.
6. The **land wheel** is the wheel of the plough which runs on the un-ploughed land.
7. A **Unit draft** is the draft per unit cross sectional area of the furrow.
8. The mass of soil cut, lifted and thrown to one side is called **Furrow slice**.
9. **Green manure tamper** implement is used to trample and press the green manure crop in green fields.
10. The device **Coulter** is used to cut the furrow slice vertically from the land ahead of the plough bottom.
11. The perpendicular distance between point of share and lower position of the beam of the plough is called as **Throat clearance**.
12. The **off-Set** disc harrow is very useful for orchards and gardens.
- 13 Tractor drawn disc harrows have concave discs of size varying from **35-40** cm diameter.
14. The **Spool** is used to separate the two adjacent discs and to keep them in position.
- 15 The **Rotary cultivator** is a cultivator with tines or bladblade mounted on a power driven horizontal shaft.

16. The main purpose of puddling is to reduce leaching of water.
17. Most of the fertilizer drills in the country are made with Auger feed type of mechanism to drop the fertilizer in the field.
18. A transplanter fitted with a engine is called Self propelled transplanter.
19. In case of paddy and vegetables transplanting method is adopted to plant the seedlings.
20. Art of placing the seeds in the soil to obtain good germination is called sowing.
21. The plough accessories look like a miniature plough is called Jointer.
22. Cultivator fitted with discs is called Disc cultivator.
23. Share is the part of the plough bottom which penetrates into the soil and makes a Horizontal cut below the surface.
24. Gauge wheel is an auxiliary wheel of an implement to maintain an uniform depth of working.
25. Vertical disc plough is also called Harrow disc plough.
26. In spring tooth harrow, spring tooth is Elliptical in a shape.
27. Mechanical manipulation of soil to provide favourable conditions for crop production is called Tillage
28. Beam is that part of the animal drawn size harrow which connects the implement with Yoke.
29. The process to get the predetermined seed rate of the seed drill is called Calibration.
30. Mat type of seedlings are raised in a nursery.

- 31. To ensure the uniformity in metering of seeds **Sticky belt** method is adopted.
- 32. Plough works round a strip of unploughed land is called **Casting**.
- 33. Process of placing the seeds in holes and covering them is called **Dibbling**.
- 34. The tilt angle of good disc plough is **15°-25°**.
- 35. The disc angle of good disc plough is **42°-45°**.
  
- 36. **Scraper** is a device to remove soil that tends to stick the working surface of disc.
- 37. **Tandem disc harrow** is a disc harrow comprising of four gangs in which each gang can be angled in opposite direction.
- 38. **Bund former** is used for making bunds and ridges by collecting the soil.
- 39. Rotavator is also called as **Rotary tillage**.
- 40. **Wheel hoe** is a hoe with one or two wheels.



**THANK YOU**