Farm Tools and Equipment

Introduction

- (i) Farm tools and equipment perform specific jobs in the farm.
- (ii) They make work easier and more efficient.
- (iii) They can be classified according to their uses.

(a) Garden tools and equipment

	Tools		Uses
	1.	Panga	Cutting and light digging.
	2.	Jembe/hand hoe	Cultivation, digging holes and trenches
	3.	rork <i>jembe</i>	Cultivation, digging out roots, harvesting of root grops
	4.	Nake	collecting trash, breaking large clods, levelling and removing stones from a seedbed and spreading of organic manure.
	5.		Scooping and carrying of soil, sand, concrete mixture and manure.
	6.	Shovel	Digging moving soil sand fartilisers and grains
	7.	Howel	Scooping seedlings during transplanting and digging planting holes for seedlings
	8.	Pruning shears	Pruning and trimming twigs and hadges
	9.	Secateur	Cutting young stems and pruning branches
	10.	budding knife	Culting young stems during hydding and and:
	11.	AXC	Culling hig trees and roots and enlitting logg of wood
	12.	Pick axe	Digging, breaking stones and digging out roots.
	13.	Mattock	Digging hard soils
	14.	Planting line	Aligning planting rows
	15.	watering can	Watering plants in nursery had
	10.	Wheelbarrow	Transportation of soil fertilisers and form produce
	*	SICKIE	Cutting grass and harvesting caracle
	10.	Pruning saw	Cutting old wood stems and pruning his beauty
	17.	Diobei	Making planting holes (dibbling)
	40.	Milad Sack Sprayer	Applying agro-chemicals by approxima
	21.	Wire stretcher	Tightening and stretching wires during fencing.
(b)	Live	stock production tools a	and againment
()	Tool		Uses
			Administrative 1th 11 1
	2.	Bolus oun	Administering liquid drugs to animals orally.
	۵.	Dorus guii	Administering solid drugs or tablets to animals orally.

	3.	Shears	Cutting off wool from sheep.
	4.	Umodermic syringe	Administering drugs by injection e.g. in vaccination.
		Stirmin (hucket) numn	Application of acaricide by hand spraying.
	5.	I actometer	Checking specific gravity of milk.
	6.	Durdings	Used in bloodless method of castration.
	7.	Haltan	Rope designed to restrain the animal.
	8.	Haiter	Cutting short the overgrown hooves.
	9.	Florence Kille	Stretching rubber ring during castration, dehorning and
	10.	Elastrator	docking of lambs.
	1.1	T dahaman	Applies heat on horn bud to prevent growth of horns.
	11.	iron denorner	Fixed into the nose of a bull to restrain and lead it.
		Nose ring	Detecting mostitic in milk producing animals
	13.	Strip cup	Detecting mastitis in milk producing animals.
	14.	Trocar and cannula	Relieving a bloated animal of gases particularly rumi-
			nants.
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(c)		kshop tools and equipm	Uses
	Too		
	1.	Spanner	Tightening and loosening nuts and bolts. Cutting small wires and thin metal and gripping firmly.
	2.	Pilers	Sharpening tools, smoothening or shaping edges of
	3.		metals.
	4.	Rasps	Smoothering and shaping of wooden structures.
	5.	Chisels (wood)	Making grooves in wood.
	6	Cold chisel	Cutting and shaping metal.
	7	Screw driver	Driving screws in or out of wood or metal.
	8.		
	٠.	- Cross cut saw	Cutting across the grain of wood.
		- Rin saw	Cutting along the grain of wood.
		- Hack saw	Cutting metals.
		- Bow saw	Cutting branches of trees.
	9	Pincers	Cutting and withdrawing nails.
	10	Braces	Boring holes in woodwork.
	11	Drill	Boring holes in metalwork and woodwork.
		Hammer	
	12.	- Claw hammer	Driving in, removing and straightening nails.
		- Ball nein	Driving in nails, rivets and straightening metals. Also
		Dan poin	used on cold chisel.
	13	Mallet	Hammering or hitting wood chisel.
		Planes	
	17.	- Block plane	Smoothering end-grains of wood.
		- Smoothering plane	Smoothing and clearing up surface of wood.
		- Jack plane	Fine finishing on wood.
	15	Spokeshave	Smoothering curved surfaces of wood e.g. handles of
	15.	spokeshave	jembes, axes, etc.
	16	Measuring equipment	jenioes, ands, etc.
	10.	Tona	. Measuring length and distance.
		- Tape	. Measuring short length.
		- Kuicis	Massuring langth and angles
		- Square	. Measuring length and angles.

Tool	's	Uses
	- Marked strings	Measuring distances.
	- Marking gauge	Marking parallel lines to the edge of stock.
	- Mortise gauge	Marking two parallel lines to the edge of stock.
17.	Fencing plier	Cutting wires, hammering staples when fencing.
18.	Vice and clamps	Firmly holding pieces of work together.
19.	Spirit level	Measuring horizontal or vertical levels.
20.	Oil can	Applying oil in fine quantities.
21.	Grease gun	Applying grease in nipples of machines.

Care and Maintenance of Tools and Equipment

Reasons for Maintenance

- (i) To increase durability.
- (ii) To increase efficiency.
- (iii) Reduce costs of replacement and repair.
- (iv) For safety of the user.

Methods

- (i) Use tools for the right work.
- (ii) Proper handling when using tools or equipment.
- (iii) Clean and oil tools after work.
- (iv) Keep the tools in their right places.
- (v) Replace and repair worn-out parts.
- (vi) Sharpen cutting or digging edges of the tools.
- (vii) Grease moving parts to reduce friction.
- (viii) Use safety devices in the workshop to reduce accidents and breakages.

WORK TO DO

- 1. State the uses of the following farm tools:
 - (a) Jembe
 - (b) Secateurs
 - (c) Drenching gun
 - (d) Spokeshave
- 2. What garden tools would you require to prepare a seedbed for vegetable growing?
- 3. What are the following tools used for?
 - (a) Fencing pliers

- (b) Strip cup
- (c) Garden trowel
- (d) Hacksaw
- 4. Which servicing points of a knap-sack sprayer require your attention before use?
- 5. (a) State five reasons for proper care and maintenance of farm tools.
 - (b) Explain the care and maintenance practices carried out on farm tools.
- 6. Suppose you want to construct a simple crush on the farm. What hand tools and equipment would you require to accomplish the job?
- 7. Under what conditions would you require to use a forked *jembe* rather than the ordinary *jembe*?
- 8. Briefly explain precautionary measures to be taken when using farm tools.
- 9. State functional differences between the following farm tools:
 - (a) Pick axe and mattock.
 - (b) Cold chisel and wood chisel.
 - (c) Grease gun and bolus gun.
- 10. You are intending to make a wooden door for a poultry house.
 - (a) Name the tools you would require for the work.
 - (b) Outline the procedures followed in accomplishing the work.