1. a) **List the sources of water on the farm.**

* Surface water
* Rain water/ rainfall
* Underground/ ground water

1. **How is water conveyed from one point to another?**

* Transporting in containers by vehicles/ animals/ human
* Piping
* Use of channels

1. **State how water is stored on a farm**

* Use of water tank/ container
* Use of dam/ pond

1. i) **Name the types of water pipes.**

* Metal pipes
* Plastic pipes
* Hose pipe

ii**) Mention the types of metal pipe**

* Aluminium pipes
* Galvanised iron pipes.

iii) **What features are considered when buying plastic pipes?**

* Quality of material used for making the pipes
* Size of the pipes i.e diameter/ length
* Working pressure of the pipes.

1. **Name the types of water pumps to be used on the farm.**

* Centrifugal / rotodynamic
* Semi-rotary
* Piston/ reciprocating pumps
* Hydram.

1. i) **Why should water be treated before use?**

* Kill disease causing organisms
* Remove chemical impurities
* Remove bad smell and taste
* Remove sediments and other solids.

ii) **State the methods of treating water on the farm.**

* Boiling
* Chlorination/ chemicals
* Aeration
* Sedimentation/ decanting
* Filtration

iii) **How is water used on the farm?**

* Domestic use e.g drinking, washing, cooking
* Processing farm produce
* Cooling farm engines
* Solution of chemicals e.g
* Livestock drinking
* Washing animals and farm structures
* Mixing with building materials e.g concrete, mud
* Irrigation purposes
* Operating grinding mill
* Generating hydro-electric power

1. a) i**) What is irrigation?**

* Artificial application of water to the soil for the purpose of supplying sufficient amount to crops.

ii) **List the factors to consider in deciding to irrigate crops.**

* Type of soil
* Capital availability
* Types of crops to be grown
* Source of water/ water availability/ rainfall pattern
* Size o land to be irrigated
* Profitability of irrigation.

b) **List the major types of irrigation**

* Overhead/ sprinkler
* Sub-surface
* Surface
* Drip/ trickle