

LABASA SANGAM(SKM) COLLEGE**AGRICULTURAL SCIENCE YEAR 9 – 2021****MONDAY – 21/06/2021 SUBSTRAND AS 10.1.1 GENERAL AGRICULTURE**

1. Explain two benefits of agriculture.
2. Identify two sources of danger in agriculture.
3. Briefly explain the three importance of Occupational Health and Safety.
4. List two factors to consider when preparing OHS rules.
5. Discuss three importance of having a first aid kit in a farm.

TUESDAY / 22/06/2021

1. List when a first aid kit should be part of the lesson.
2. List four items which should be in a first aid kit.
3. Discuss what each item in a first aid kit is for:
 - i. Band aid
 - ii. Adhesive plaster
 - iii. Pair of scissors

WEDNESDAY – 23/06/2021

1. Identify one way in which injuries may become contaminated.
2. Give the reason why Agricultural Science first aid kit is not to contain any disinfectants and medicine.
3. Identify two challenges facing the development of agriculture in Fiji and suggest a solution for each challenge.

THURSDAY – 24/06/2021

1. Describe three reasons why farming is regarded as a noble profession.
2. Differentiate between a professional farmer and a hobby farmer.
3. Define green job and give two examples in Fiji.
4. Explain the importance of teaching career pathway to Year 9 students.

FRIDAY – 25/06/2021**SUB-STRAND AS 9.2.1: PHYSIAL CAPITAL**

1. In a paragraph, discuss 2 advantages and 3 disadvantages of using modern tools to plant dalo. Use the supplementary notes given below to assist you.

Advantages of farm machines:

1. **Substitute for labour** – with increased educational levels and competition from other employment opportunities, farm labour is expensive, often unavailable, lacking in farming skills and do not have the strength and endurance for large scale production.
2. **Increased productivity** – machines can complete large amounts of work in specified time periods as well as handle large, delicate and specialised tasks without the need for training and rest.
3. **Cheaper storage and maintenance** – when not in use, a machine can be cleaned and stored. It does not need the daily feeding, housing, transport, health, education and social amenities that are needed by labourers.
4. **Transferable skills** – skills associated with machine operation, care and maintenance are transferable so the skilled machine operator can get better paying employment either on farms or in industry.

Disadvantages of farm machines:

1. **Redundancy** – machines replace people, many of them skilled in farm work.
2. **Costs** – machines are often expensive to buy, operate, maintain and store. Therefore machines which can be used for more than one task are better to buy.
3. **Breakdowns** – a job may be delayed by breakdowns which need parts or experts which are not readily available. This will delay the farm operations.
4. **Health and safety** – machine operation may cause health issues because of the dangers of moving parts and speed and well as the temperature, repetitive actions, noise, dust, smell and fumes associated.
Safety equipment and working conditions are important.

(Source: Agricultural Science for Year 12, 2017, pp 22)

1. Identify a function of each of the following commonly used crop husbandry tools:
 - i. Shovel
 - ii. Cane knife
 - iii. Shears
 - iv. Hand fork

MONDAY – 28/06/2021

1. Name the best tool to perform the following tasks:
 - i. Weigh watermelon before selling.
 - ii. Cut hoof pad in Mr Sami's goat farm.
 - iii. Administer liquid medicine to calves in Yaqara Pastoral farm.
 - iv. Burn identification mark into the animal's skin.

TUESDAY – 29/06/2021

2. Name the following tools and state their function:



(Source: Agricultural Science for Year 9, 2020, pp 42)

WEDNESDAY – 30/06/2021

1. Use the notes given below to answer the question that follow.
Maintenance of tools includes:

- Cleaning – so that damaged parts can be seen and mended and the items are ready for use the next time they are needed. The tool room also needs to be kept free of cobwebs and dust for health reasons.
- Sharpening of blades – when cutting tools have sharp blades, less effort is needed to cut through objects e.g. cane knife. If a file is used, the blade must always be facing away from the person to prevent injury.
- Painting – painting helps preserve surfaces like wood and metal. The handles of farm tools are to be painted a bright colour, like orange-red, so that items left in the garden can stand out and be easy to see.
- Oiling – moving parts of buildings and tools need to be oiled to lessen friction e.g. hinges metal blades.
- Repairing – when damages occur, they should be mended quickly to avoid further damages e.g. a chipped knife blade should be filed smooth as soon as it is seen to avoid a larger crack occurring in future.

In a paragraph, discuss five maintenance practices carried out in tool.

THURSDAY 01/07/21

1. Discuss three factors to consider when managing tools and agrochemicals on a farm
2. Describe the main reason for cleaning and organising tools after use.
3. Explain two characteristics of an ideal room to store agricultural tools.

FRIDAY 02/07/21

1. State the benefit of tools having brightly coloured handle.
2. Differentiate between the following pesticides:
 - i. Nematocides and molluscicides
 - ii. Rodenticides and miticides.

MONDAY 05/07/21

1. Suggest two ways to safely store agrochemicals.
2. Propose two ways to safely transport agrochemicals.

3. Describe two proper ways to safely use agrochemicals.

TUESDAY 06/07/21

1. Explain two ways to safely dispose agrochemicals.
2. Identify two consequences of mishandling agrochemicals.
3. Differentiate between local effects and systemic effects of exposure to agrochemicals and give an example of each.

WEDNESDAY – 07/07/2021

1. State one consequence that may result when students:
 - i. run while carrying tools to the gardens.
 - ii. leave the lid off agrochemical bottles.
 - iii. leave digging forks lying on the footpath.
 - iv. stand too close together while using cane knives.
 - v. store agro-chemicals in unlabelled bottles.

THURSDAY – 08/07/21

2. Explain the first aid procedure to perform when faced with the following scenario:
 - i. Sunia spills Janola in Avnil's eyes.
 - ii. Atama found unconscious in the chemical room concentrated with the smell of Glyphosate.
 - iii. David accidentally swallowed kerosene.
3. Describe two systemic effects of exposure to agrochemicals.

FRIDAY – 09/07/2021

1. Discuss why many scientists recommend that farmers should not use agrochemicals on farms.

2. Why are students advised to walk in single file when carrying tools to the garden?
3. Discuss three symptoms of exposure to agrochemicals.
4. Differentiate between manure and fertilizer.
5. Describe what a crop farmer would use the following agrochemicals for:
 - i. stimulants
 - ii. retardants
 - iii. rooting hormones