**AGRICULTURE ECONOMICS**

**(BASIC CONCEPTS AND FARM RECORDS)**

1. (a) - Help to determine the value of the farm/ determine assets and liabilities.

 - Provide history of the farm.

 - Assist in planning and budgeting in various fields.

 - Helps to detect losses or theft in the farm.

 - Assists when sharing losses or profits (dividends)for communal owned farms/ partnership.

 - Help to settle disputes in the farm among heirs.

 - Help to support insurance claim e.g. against fire and theft.

 - Provide labour information like terminal benefits, NSSF due, Sacco dues for all employees.

 - Help to compare the performance of different enterprises within a farm or other farms.

 - Help in the assessment of income tax to avoid over or under taxation.

 - Records, helps to show whether the farm business is making profit or losses. This information

 helps in obtaining credit. (10 x 1 = 10 mks)

2. (a)Health record

 (b) Next date of treatment /vaccination

* - Occurrence of the disease
* - Response to treatment ( ½ x 2 =1mk)

 (c) - Select and cull animals on health ground

* Know the course of action to be taken in the event of a disease and maintenance of good health
* Know the prevalent disease

- Calculate cost of treatment

3 Four uses of farm records are;

* Used to compare the performance of different enterprise
* Shows history of the farm
* Help in planning and budgeting of farm operations
* Assessment of income tax
* Calculation of profits and losses
* Securing loans
* Settling disputes where no will is left

4. four uses of farm records

* Help compare performance of different enterprises within the farm and other farms
* Shows the history of the farm
* Guide a farmer in planning and budgeting of farm operations
* Helps to detect losses or theft on the farm
* Helps to avoid over taxation or under taxation
* Helps to determine the value of the farm in terms of assets and liabilities
* Helps in sharing of profits and losses in partnership
* Helps in setting disputes among heirs in absents of a will
* Shows whether the farm business is making profit or losses
* Helps in supporting insurance claims of farm assets
* Provide labour information

5.

* Understanding the technical language used in agriculture
* Application of the right amounts of inputs
* Correct/ appropriate measurements in farming

Uses of appropriate technology

6. (a) Milk production record (1x1=1mk)

 (b) Determine prevalent diseases;

- Establish treatment of diseases;

- Establish disease control method;

- Determine cost of medication/health care;

- Determine the health status of different animals; (4x1=4mks)

(c) Price trends/market situation

- Production techniques

- Labour trends

- Breeds of dairy cattle

- Production constraints/risks and certainties

7.

* Field
* Area of the land
* Season
* Crop planted
* Crop variety
* Land preparation date
* Type of fertilizer at planting
* Type of fertilizer at top dressing
* Seed rate used
* Type of weed and date of weed control
* Type of pest and date of pest control
* Date of harvesting
* Remarks (Any 4)

8. List two events occur during induction stroke in a four stroke engine. (1mk)

* Piston moves down from TDC
* Exhaust valve is closed
* Inlet valve is open
* Air / fuel mixture get into combustion chamber
* Piston reaches BDC. (4x ½ = 2mks)

9. – Where the resources are free

 - where there is no alternative

 - where the alternatives are very many.