

AGRICULTURAL SCIENCES SET PIECES 2010

NB. Educators are advised to regard these suggestions as guidelines and not as “tips” for the examination. The Examination Guidelines should be adhered to.

PAPER 1

ANIMAL NUTRITION

- Alimentary canal and digestion;
- Components and digestibility of feed;
- Biological value of feed;
- Energy value of feed;
- Supplements
- Types of feed;
- planning a feeding programme (Pearson square, principles of fodder flow programme)

ANIMAL PRODUCTION

- Increasing production (nutritional, reproduction, protection, management aspects that influence animal production);
- shelter;
- handling of farm animals;
- behaviour of farm animals

ANIMAL REPRODUCTION, PROTECTION AND CONTROL

- reproductive organs (male and female);
- parturition;
- artificial insemination;
- embryo;
- milk production.
- diseases (viral, fungal, metabolic, bacterial, protozoa);
- pests.

PAPER 2

AGRICULTURAL MANAGEMENT

- Price determination
- The market
- Methods of marketing
- Entrepreneurship: business planning

PRODUCTION FACTORS AND MANAGEMENT

- Land (Soil)
- Labour
- Capital
- The management process

[BASIC AGRICULTURAL GENETICS

- Heredity, selection, variation and breeding

- Mechanisms
- Monohybridism and dihybridism
- Mendel's law
- Segregation and recombination of characteristics
- Plants and animals
- Growth and genetic manipulation: genetically modified crops and their purpose

SKILLS

- Interpretation of Graphs
- Interpretation and changing of data (Tables / Diagrams / Flow charts / Pictures)
- Calculations
- Evaluation of Data
- Plotting of data
- Making drawings
- Planning and designing experiments
- Identifying labels /Labeling/
- Organizing / Recording reorganizing data
- Tables or Data Ability to follow instructions Interpreting Flow charts