

Agricultural science paper 1 march memorandum for grade 12 2014

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What are the topics for agricultural science grade 12? Agricultural Sciences seeks to develop your scientific knowledge and approach to relevant agricultural concepts. In Grade 12 the main content topics are Animal Studies, Agricultural Management and Basic Agricultural Genetics.

What is the gross energy value of a feed minus the value of energy that is lost in the manure? Digestible energy (DE) — GE of the feed minus the energy lost in feces. It is a better assessment of energy value because the majority of energy lost from a consumed feed is via feces. The energy retained in the body is then classified as "digested" energy.

What is the abbreviation for the scholarly journal of agricultural science? J. Agric. Sci.". It is the recommended abbreviation to be used for abstracting, indexing and referencing purposes and meets all criteria of the ISO 4 standard for abbreviating names of scientific journals.

How do you write an agricultural research paper?

Which subject is best for agriculture?

What are the major agricultural products in Region 12?

What is the difference between the gross energy content and metabolizable energy content of a diet? Gross energy (GE): the amount of energy in the feed. Digestible energy (DE): the amount of energy in the feed minus the amount of energy lost in the feces. Metabolizable energy (ME): the amount of energy in the

feed minus the energy lost in the feces and urine.

How to calculate metabolizable energy in feed? The formula is given as $\text{Metabolizability} = (\text{GE}_{\text{input}} - \text{GE}_{\text{output}} - \text{GE}_{\text{urine}}) / \text{GE}_{\text{input}}$ where GE is the gross energy of the diet (input) and the feces/excreta (output). This value is then multiplied by the GE of the diet to determine the ME (Kong and Adeola 2014).

What is the fuel or energy value of food called? The kilocalorie, which has been defined as the amount of heat energy needed to raise the temperature of a kilogram of water 1° C., is the unit that has been used traditionally for expressing the energy value of foods.

What is the abbreviation of Indonesian journal of Agricultural Research?

What is the abbreviation for agricultural science digest? The Agricultural Science Digest (ASD) is a peer-reviewed international journal that publishes original research articles, reviews, and a short notes on all aspects of agricultural and veterinary research.

What is the abbreviation for Agriculture? “Ag.” Merriam-Webster.com Dictionary, Merriam-Webster, <https://www.merriam-webster.com/dictionary/ag>.

What research methods are used in agriculture? Experimental research methods consist of several types: experimental, quasi-experimental, and pre-experimental designs (see Borg et al. 1963). Agriculture researches are also divided into quantitative and qualitative categories based on the nature of the data.

Which design is used in agriculture research? The randomized complete block design is the most commonly used design in agricultural field research.

What is the concept of research in agriculture? Agricultural research can be broadly defined as any research activity aimed at improving productivity and quality of crops by their genetic improvement, better plant protection, irrigation, storage methods, farm mechanization, efficient marketing, and a better management of resources.

Which country is best to study agriculture? Which country is best for agriculture study? Countries like the United States, Canada, Australia, and the Netherlands are

renowned for their advanced agricultural programs and state-of-the-art facilities, making them popular choices among international students.

What is the best field in agriculture?

Which branch of agriculture is most important? 1) Agronomy – Deals with the production of various crops which includes food crops, fodder crops, fibre crops, sugar, oilseeds, etc. The aim is to have better food production and how to control the diseases.

What are the top 3 agricultural products? Common agricultural commodities include dairy products, wheat, and coffee.

What is the biggest agricultural industry? China is the first largest agricultural producer globally, producing 1095 million MT of agricultural-produce contributing greatly to the world's food supply. China is a top producer of staple crops like rice, wheat, and corn.

What region is best for growing crops?

What is the most common method used to calculate metabolizable energy of pet food? The metabolisable energy (ME) of processed pet foods can be calculated using Modified Atwater factors. They are based on an average digestibility of 90% for fat, 85% for carbohydrate (NFE) and 80% for protein (FEDIAF Nutritional Guidelines).

What is the nutritive ratio of feeds? In animal feeding; a measure of the value of a feeding ration for growth (or milk production) compared with its fattening value. It is the sum of the digestible carbohydrate, protein, and $2.3 \times$ fat, divided by digestible protein.

Why is metabolisable energy important? Metabolizable Energy (ME) is the net energy remaining after fecal and urinary energy loss, and represents the energy available for growth or reproduction and for supporting metabolic processes such as work (locomotion) and respiration (thermoregulation, maintenance metabolism, HIF).

How is metabolizable energy measured? It is measured using a bomb calorimeter [3, 7]. Digestible energy (DE) is defined as the GE of feed minus the GE of feces [3]. Metabolizable energy (ME) is defined as the DE of feed minus the GE of urine and

gaseous products of digestion [3].

What is the difference between apparent and true metabolizable energy?

Apparent ME (AME) is the most widely used measure of food energy available to birds. True ME (TME) differs from AME in recognizing fecal and urinary energy of nonfood origin as metabolized energy. Only AME values obtained from test birds fed at maintenance levels should be used for energy analyses.

Why is there more metabolisable energy available in highly digestible food?

The greater the digestibility, the greater the benefit of that food to the cow because the cows are able to digest and use more of the feed. Thus, the higher the digestibility, the higher the Metabolisable Energy.

What topic is agriculture chemistry? Agricultural Chemistry is a branch of chemistry that explains the chemical and biochemical ongoing processes in soil and plant. It also covers the areas regarding mineral nutrients, applications of fertilizers, and soil fertility related to product yield enhancement.

Which topic is best for research in agriculture?

What is the meaning of agricultural ecology? Answer and Explanation: Agricultural ecology is the study of the ecology of agriculturally productive regions. This study includes both the biotic and abiotic factors that contribute to the crop production of this area.

What are the three main chemicals used in agriculture? Many farmers choose to use chemicals to keep weeds and pests from destroying their crops and to add more nutrients to the soil. There are three different kinds of pesticides; herbicides, insecticides and fungicides. All three of these pesticides are used to kill different kinds of pests that can be found on a farm.

What is the basic agricultural chemistry? Agricultural chemistry is a science concerned with ways to influence chemical and biochemical processes in soil and plants, with plant mineral nutrition and with using fertilizers and other chemical means to improve fertility and increase yield.

What are the products of chemistry in agriculture?

What is the biggest problem in agriculture?

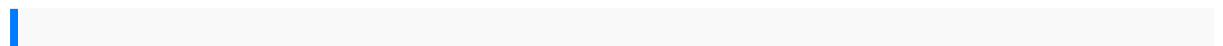
What is the best field in agriculture?

What is scientific research in agriculture? Here are some key roles of scientific research in agricultural development: Knowledge Generation: Scientific research generates new knowledge and understanding of agricultural systems, including crop production, livestock management, soil health, water management, and pest and disease control.

What is the best definition of agricultural? Agriculture describes the practice of growing crops or raising animals. Someone who works as a farmer is in the agriculture industry. The Latin root of agriculture is agri, or "field," plus cultura, "cultivation." Cultivating a piece of land, or planting and growing food plants on it, is largely what agriculture means.

What are the four types of ecology? The scope of ecology is huge, and it encompasses all organisms living on Earth and their physical and chemical surroundings. For this reason, the field is usually divided into different levels of study including: organismal ecology, population ecology, community ecology and ecosystem ecology.

What are the two components of a farm ecosystem? Q.3 The major components of an ecosystem are It consists of two major components, biotic or living components and nonbiotic or nonliving components. Biotic components include plants, animals, decomposers. Nonliving components include air, water, land.



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