



“Investing in Africa’s future”

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

NAEC202: AGRICULTURAL EDUCATION AND EXTENSION

END OF SECOND SEMESTER FINAL EXAMINATIONS

APRIL 2022

LECTURER: DR K. MUKUMBI

DURATION: 3 HRS

INSTRUCTIONS

Answer all Questions

SECTION A

Question 1

State whether the following statement is TRUE or FALSE and give an explanation for your response.

Each question is worth 4 marks.

- i. It is important to use multiple teaching methods in extension programs.
- ii. The technology transfer model is based on the premise that the participating farmers become researchers who test the various technological options available, during which process they are able to decide what the best alternative for adoption in their particular circumstances will be.
- iii. Technology transfer was the traditional role of public agricultural extension/advisory systems
- iv. Extension and advisory services have become less pluralistic with the increasing participation of the private sector, NGOs, producer groups, and ICT based services.
- v. M&E informs decisions about extension program operations and service delivery

Complete the sentences. Write only the missing word on your answer script.
Each question is worth 2 marks.

- vi. _____ is the periodic assessment of program impact at the population level and value.
- vii. The focus of _____ is conformity/fidelity to program guidelines, process indicators, quarterly and annual goals, work plans.
- viii. Socialization is a _____ function of mass media.
- ix. _____ demonstration is used by the extension worker during the early stages of the introduction of farming innovations to convince farmers why they should adopt introduced innovations
- x. A late _____ is one of the types adopter groups.

SECTION B

Question 2

Read the passage below and answer the questions that follow.

Foliar fertilisation is the technique of feeding plants by applying liquid fertiliser directly to the leaves so they absorb essential elements through their stomata and epidermis. The practice of foliar fertilisation is based on scientific research done in the 1950s, which demonstrated that leaves can take up minerals through their stomata, and in some cases their cuticles. It is most effective when done early morning and late afternoon. In Zimbabwe, there has been resistance and low uptake of foliar fertiliser by farmers.

- a) What 5 factors could be influencing low uptake of the foliar fertilizer? Explain. (20)
- b) You have been hired to develop a communication strategy to promote use of foliar fertilizers. Your response should answer the following questions:
 - i. What types of stakeholders should be involved? (5)
 - ii. What is the desired change in behavior? (4)
 - iii. What three key messages would be appropriate? (6)
 - iv. Which media of communication would be most effective? (3)
 - Why? (2)
 - v. How will the communication process be monitored and evaluated? (5)
- c) As an extension officer how would you apply knowledge of the 5 categories of adopters in promoting adoption of foliar fertilizers? (10)
- d) You work for a company that produces foliar fertilizers, and you provide advisory services to farmers. You have been asked to recommend an extension approach, model, and methods to promote adoption for foliar fertilisers.
 - i. Which extension approach is the most appropriate one to use in this situation? Describe the extension approach and explain why you chose it. (5)
 - ii. Which extension model will you use? Describe the extension model and explain why you chose it. (5)
 - iii. Which extension methods will you use? Describe the extension methods and explain why you chose them. (5)

End of Examination Paper