

# UNIVERSITY OF FORT HARE

## Agricultural Sciences Method PMA 411/ MAG 411

Bachelor of Education: PMA 411/ MAG 411

June Main Examination

JUNE

2023

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Time: 3 Hours  
Subject: PMA 411 / MAG 411  
Marks: 100

This paper consists of 3 pages including the cover page

Internal Examiners

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INSTRUCTIONS

- Answer all questions
- Write neatly

### **QUESTION ONE: REFLECTING ON EXPERIENCES [25 MARKS]**

1.1 In one of your assessment tasks you created a reflective video where you explained the rationale and philosophy that motivated you to become an Agricultural Sciences educator. The following criteria were used to evaluate your video presentation:

- *Complex knowledge/integrate & synthesise.*
- *The main points are well developed with high quality and quantity support.*
- *Reveals a high degree of critical thinking.*
- *Content indicates synthesis of ideas, in-depth analysis, and evidence of original thought and support for the topic.*

Please reflect on your video presentation based on the following components:

- 1.1.1 Explain how you addressed the criteria mentioned above (10)
- 1.1.2 Describe how you answered the five questions that guided your presentation (05)
- 1.1.3 Elaborate on how your presentation met or did not meet the evaluation criteria. And which area would you change if given a second opportunity (10)
- (25)**

### **QUESTION TWO: ISSUES IN AGRICULTURAL SCIENCES TEACHING [25 MARKS]**

2. The media is frequently reporting on very low levels of learner achievement in Agricultural Sciences subjects in both nationally and internationally written comparative tests. Amongst the issues identified are:

- Unprofessionalism
- Learners not interested in the subject
- Agricultural Sciences practices are used as a disciplinary measure for late coming and other misconduct
- Difficult content
- Stress and anxiety

2.1 As a prospective Agricultural Sciences educator, critically reflect on your own experiences as both a learner and student teacher and elaborate on how the above issues affected you, how they are most likely to affect your teaching, and how will you mitigate those issues. (5 x 5 = 25)

### **QUESTION THREE: LESSON PLANNING [25 MARKS]**

3.1 Choose any topic in Grade 12 syllabus and prepare a lesson for your learners. Design a fully fleshed lesson and be guided by the following components:

- Theme/Topic:
- Skills focused on in the lesson (s)
- Content:
- Outcomes/Aims /Objectives
- Teaching and learning strategies
- Introducing the lesson:
- Lesson activities (for both the teacher and learners)
- Resources used
- Assessment Strategies
- Barriers to Learning
- Assessment
- Concluding the lesson:
- Way forward for the next lesson

(25)

### **QUESTION FOUR: ASSESSMENT [25 MARKS]**

Luckett, & Sutherland (2000, pp 1) deliberate that:

*Given the critical relationship between assessment and student learning and the changing context in which we teach, in which governments, employers, communities and, not least, students, are concerned to make institutions of higher education more accountable for the services they provide, we are obliged to take our assessment practices seriously and responsibly. When we are called upon by various stakeholders to account for our teaching, our assessment of students is likely to be a critical area for scrutiny, judgement and reflection.*

*Assessment defines for students what is important, what counts, how they will spend their time and how they will see themselves as learners. If you want to change student learning, then change the methods of assessment.*

*(Brown, Bull and Pendlebury, 1997:6)*

As a prospective Agricultural Sciences educator, discuss how would you address the following in the teaching and learning of Soil Science topic:

4.1 What are the specific skills that you will be assessing among Soil Science, and why is it important for learners to learn those skills (10)

4.2 Discuss how best will you, as an Agricultural Sciences educator, assess Soils Science content and where will the assessment be conducted? (10)

4.3 What activity will you use to check the prior knowledge of learners, and explain when can this type of learning activity can be administered (5)

**[25]**

**TOTAL: 100 MARKS**

**GOOD LUCK**