



UNIVERSITY OF JOHANNESBURG
FACULTY OF EDUCATION
NOVEMBER EXAMINATION 2016

PROGRAMME: B Ed (SENIOR AND FET PHASE)
MODULE: METHODOLOGY AND PRACTICUM: LIFE SCIENCES 3B
CODE: MOFPLB3
TIME: 1 hour
MARKS: 50
EXAMINER: Mr K Mamutse
MODERATOR: Dr L Mnguni (UJ)

(This paper consists of **two (2)** pages)

INSTRUCTIONS

Read the following instructions carefully before answering the questions:

1. This question paper consists of two (2) questions.
2. You **MUST** answer ALL the questions.

QUESTION 1

- 1.1 Write a lesson plan following an argumentation approach using any Life Sciences topic of your choice. (10)
 - 1.2 Explain how you would use Toulmin's model as a guide for teaching for the lesson in Question 1.1 above. (10)
- (20)**

QUESTION 2

Socio-scientific issues (SSI) involve the deliberate use of scientific topics that require students to engage in dialogue, discussion, and debate. They are usually controversial in nature but have the added element of requiring a degree of moral reasoning or the evaluation of ethical concerns in the process of arriving at decisions regarding possible resolution of those issues. The intent is that such issues are personally meaningful

and engaging to students, require the use of evidence-based reasoning, and provide a context for understanding scientific information (Sadler, 2004a; Zeidler, 2003).

- 2.1 Draw a Content Representation (CoRe) of one (1) socio-scientific issue that must be taught in Life Sciences. Your CoRe should have at least four (4) big ideas. (20)
- 2.2 What are the possible challenges that teachers face when teaching socio-scientific issues in Life Sciences? (5)
- 2.3 What precautions would you take when teaching socio-scientific issues in Life Sciences to address learner diversity in your class? (5)

(30)

TOTAL: 50

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