



**UNIVERSITY OF JOHANNESBURG**  
**FACULTY OF EDUCATION**  
**NOVEMBER EXAMINATION 2016**

PROGRAMME: B Ed (SP & FET)/PGCE (FET)  
MODULE: TEACHING METHODOLOGY AND PRACTICUM: FET LIFE SCIENCES  
CODE: MPFLSY1/XLS0000  
TIME: 3 hours  
MARKS: 100  
EXAMINERS: Dr L Mnguni  
MODERATOR: Dr M Kazeni (UP)  
(This paper consists of **two (2) pages**)

**INSTRUCTIONS**

Read the following instructions carefully before answering the questions:

1. This question paper consists of three (3) questions.
2. Answer all questions.

**QUESTION 1**

- |  |             |
|--|-------------|
| 1.1 What is a curriculum?                      | (2)         |
| 1.2 What is Life Sciences?                     | (2)         |
| 1.3 What is the significance of Life Sciences? | (6)         |
| 1.5 Explain the nature of Life Sciences.       | (10)        |
|  | <b>(20)</b> |

**QUESTION 2**

- |  |             |
|--|-------------|
| 2.1 Briefly describe what is meant by the Cognitive Theory of Multimedia learning.   | (10)        |
| 2.2 Use a table, to describe the difference between surface learning approach, deep learning approach and strategic learning approach. | (20)        |
| 2.3 Describe inquiry-based learning.   | (10)        |
|  | <b>(40)</b> |

### QUESTION 3

- 3.1 Explain the importance of integrating the affective domain (dealing with values, attitudes, ethical and moral considerations) in learning Life Sciences. (10)
- 3.2 Explain what is meant by “indigenous knowledge” in Life Sciences (IK). (2)
- 3.3 Distinguish between formative and summative assessment. (8)
- 3.4 Briefly explain what is meant by self-assessment and peer assessment. (4)
- 3.5 State briefly how you would use group assessment and teacher assessment to assess learners’ performance in the Life Science classroom. (4)
- 3.6 Use a basic lesson plan to demonstrate how you would teach any Life Sciences topic using ICT. (12)

**(40)**

TOTAL: 100

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