



<u>FACULTY</u>	: Education
<u>DEPARTMENT</u>	: Science and Technology Education
<u>CAMPUS</u>	: APK
<u>MODULE</u>	: MOSPNA3 NATURAL SCIENCE PRACTICUM METHODOLOGY 3A
<u>SEMESTER</u>	: First
<u>EXAM</u>	: July 2018

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MR AVIWE SONDLLO

MODERATOR : DR L MAVURU **INSTITUTION** : UJ

DURATION : 1 HOUR **MARKS** : 50

NUMBER OF PAGES: 2 PAGES

INSTRUCTIONS:

1. Answer ALL the questions.
 2. Number your answers clearly.
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QUESTION 1

- 1.1 List and briefly describe major three (3) phases of a lesson plan. (15)
- 1.2. What are the possible effects of a teachers whose PCK for Natural Sciences is not developed. (10)
- [25]

QUESTION 2

- 2.1. Tabulate four (4) differences between summative and formative assessment with the use of the following criteria: Time for administrating the assessment, support of teaching and learning, challenges and applicability. (8)
- 2.2. Critically discuss advantages and limitations of using simulations. (8)
- 2.3. Describe and draw a diagram to illustrate the concept of Technological Pedagogical Content Knowledge (TPCK) developed by Koehler and Mishra (2006). (9)
- [25]

TOTAL: 50