



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2013/2014**

**FOURTH YEAR SECOND SEMESTER EXAMINATIONS FOR THE  
DEGREE OF BACHELOR OF ARTS WITH INFORMATION  
TECHNOLOGY  
(MAIN CAMPUS)**

**AMU 418: INSTRUMENTAL TECHNOLOGY II**

*Date: 2<sup>nd</sup> April, 2014*

*Time: 11.15 - 1.30pm*

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**INSTRUCTIONS:**

- Attempt QUESTION ONE and ANY OTHER TWO questions.



## AMU 418: INSTRUMENTAL TECHNOLOGY II

**Instructions: Answer question 1 and any other TWO questions.**

1. a) What is sound system (2 marks)
- b) Explain three basic purposes of a sound system (6 marks)
- c) Describe the three main components of a Sound system (12 marks)
- d) With an aid of a diagram, explain the functioning mechanism of a Mixing console (10 marks)
  
2. a) Define the following terms  
i) Sound Reinforcement  
ii) Signal processors  
iii) Synthesizers  
iv) Controllers  
v) Electro-Acoustic (20 marks)
  
3. a) Distinguish between the following microphones  
i) Condenser  
ii) Dynamic  
iii) Wireless microphones (12marks)
- b) Explain **five** factors to consider when purchasing musical equipment for an institutional Music department. (8 marks)
  
4. a) Compare and contrast the structural, and functioning mechanism of a Classical Guitar and Electric Guitar. (10 marks)
- b) With an aid of a diagram, describe the Western Drum set mechanism and maintenance. (10 marks)
  
5. a) What are the functions of the five major parts of an African thumb piano (*Mbira or sansa*) (10 marks)
- b) With relevant examples, discuss **five** modern influences in the construction of African traditional musical instruments. (10 marks)