

MASENO UNIVERSITY **UNIVERSITY EXAMINATIONS 2013/2014**

THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF ARTS (MUSIC) WITH INFORMATION **TECHNOLOGY**

(MAIN CAMPUS)

AMU 310: ACOUSTICS I

Date: 15th July 2014

Time: 11.00 - 1.00 pm

INSTRUCTIONS:

· Answer question ONE and any other TWO.

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AMU 310: ACOUSTICS I

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- 1. Explain how sound waves are propagated and transmitted. (30mks)
- Using a labeled diagram, describe how a normal human ear perceives sound.
 (20mks)
- 3. Explain the following terms as used in acoustics:
 - a) Loudness (sones) (10mks)
 - b) Sound masking (10mks)
- 4. a) what is noise in acoustics (05mks)
 - b)Explain the importance of noise in electronic sound production. (15mks)
- 5. Discuss how the following terms are used in frequency analysis:
 - a) Spectrum analysis (10mks)
 - b) Analogue and digital frequency filter (10mks)