



TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF COMMUNICATION STUDIES

UNIVERSITY EXAMINATION FOR:

BACHELOR OF JOURNALISM AND MASS COMMUNICATION

BMC4405 : SOUND ENGINEERING

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2016

TIME: 2 HOURS

DATE: Pick Date Dec 2016

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other **TWO** questions.

Do not write on the question paper.

Question ONE

- a. State any FIVE (5) reasons that make perfect oscillations impossible in nature (10 marks).
- b. Outline why the sine wave is referred to as the basic building block of sound (10 marks)
- c. With the help of a diagram, explain the phenomenon of the ringing bell making reference to the envelop of sound concept. (10 marks)

Question TWO

As a sound engineer you have been consulted by Coke Studio Africa to discuss with management, the training needs of their new group of audio engineers that they recently recruited. Discuss any seven (7) training needs and justify their relevance to the audio engineers. (20 marks)

Question THREE

You have been invited to an international seminar in Latin America on Sound Engineering, as an experienced sound engineer make a presentation on;

- a. Basic Filter Parameters and Units(10 marks)
- b. The application of the high pass/low cut filter. (10 marks)

Question FOUR

Every signal goes through numerous amplifiers from source to destination.

- a. Discuss the concepts for changing amplitudes (10 marks)
- b. Explain the considerations one should have in mind when evaluating amplitude meters (10 marks)

Question FIVE

- a. Define the following Dynamics Processing Terms
 1. Threshold (2marks)
 2. Ratio (2marks)
 3. Attack(2marks)
 4. Release (2marks)
 5. Transients (2marks)
- b. Explain the uses of the Gain Reduction Above a Threshold in a sound wave (10 marks)