



# TECHNICAL UNIVERSITY OF MOMBASA

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SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF COMMUNICATION STUDIES

**UNIVERSITY EXAMINATION FOR:**

**BACHELOR OF JOURNALISM AND MASS COMMUNICATION**

**BMC 4405: SOUND ENGINEERING**

**END OF SEMESTER EXAMINATION**

**SERIES: APRIL 2016**

**TIME: 2 HOURS**

**DATE: Pick Date May 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.**

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## **Question ONE**

- a. Define;
  1. Pre-amp. (2 marks)
  2. Power amp. (2 marks)
  3. Sound. (2 marks)
  4. Waves. (2 marks)
  
- b. Explain the THREE large-scale audio production processes in sound engineering. (6 marks)
- c. Explain what is gain staging and its relevance in sound engineering. (6 marks)
  
- d. Explain any five elements in the training of an audio engineer. (10 marks)

## **Question TWO**

Most sound components influence how sound effects are perceived. By modifying or eliminating any one or a combination of the sound components, the sound effects are changed and totally new sounds are created. With the help of a diagram discuss the Envelop of Sound components and how it affects sound effects. (20 marks)

## **Question THREE**

You have been invited as an experienced sound engineer to give a talk to the Radio Production students from Technical University of Mombasa on sound.

Task:

- a) Clarify for them why the sine provides a basic building block of sound.  
(10 marks)
- b) Discuss with them the distinct characteristics of sound waves (10 marks)

## **Question FOUR**

Discuss at least THREE filter concepts for each of the following;

- a) Usage. (4 marks)
- b) Gain Staging. ( 4 marks)
- c) Curves over Absolutes. (4 marks)
- d) Noise Reduction. (4 marks)
- e) Isolation. (4 marks)

## **Question FIVE**

There are NINE components that most influence how sound effects are perceived. By modifying or eliminating any one or a combination of these components, the sound effects are changed or totally new sounds are created. Discuss these NINE components as used in the production of audio signals (20 marks)