



TECHNICAL UNIVERSITY OF MOMBASA

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.

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. (6marks)
- 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)