

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:APRIL2016

TIME:2HOURS

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. Attemptquestion ONE (Compulsory) and any other TWO questions. **Do not write on the question paper.**

Question ONE

- a. State the TWO elements that affect the speed of sound. (4 marks)
- b. Define the following as used in sound engineering;
 - 1. Sound.(2 marks)
 - 2. Headroom. (2 marks)
 - 3. Digital audio workstation. (2 marks)
 - 4. Maximum output level (MOL). (2 marks)
 - 5. Standard operating level (SOL). (2 marks)
 - 6. Oscillation(2 marks)
 - 7. Resonance(2 marks)
 - 8. Noise floor. (2 marks)
 - 9. Dynamic range. (2 marks)
 - 10. Waveform editor(2 marks)
- **c.** With the help of a diagram define a sound wave (6 marks)

Question TWO

To ensure quality productions, when working in an audio studio, as a sound engineer you are meant to work above the noise floor and below the point of distortion. With the help of a well labelled diagram, explain the operating levels of an electronic sound system (20 marks)

Question THREE

As a sound professional you have been invited to the TUM studios to have a practical class with the Sound Engineering students

Task:

- 1. Discuss the procedure for setting levels on the console (10 marks)
- 2. Explain the application of the high pass / low cut filter(10 marks)

Question FOUR

As a sound professional advise radio production team on the TEN Keys to creating great radio advertisements (20 marks)

Question FIVE

- a. You have been hired as a media consultant for a new radio station, discuss with the radio producer, the steps involved in examining the frequency range (10 marks)
- b. Shaping timbre is not the same as transforming timbre discuss;
 - 1. The processors that shape timbre (6 marks)
 - 2. The processors that change and add frequencies(4 marks)