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 DateMay2016

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)