



# 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 4213: RADIO PRODUCTION**

**END OF SEMESTER EXAMINATION**

**SERIES: APRIL 2016**

**TIME: 2 HOURS**

**DATE:** Pick Date Select Month 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: Compulsory**

- i. Define dynamic range and explain how we deal with it when miking vocals (4 Marks)
- ii. Outline any 6 characteristics of sound (5 marks)
- iii. State and explain any five functions of sound effects in radio production? (5 marks)
- iv. Describe what ADSR envelope means (with an illustration) and how this is applied in digital audio synthesis (8 marks)
- v. Define Doppler Shift and identify any TWO of its characteristics (6 Marks)
- vi. Identify and describe functionalities the two main devices used in computers to add effects to analog audio signals (2 marks).

## **Question TWO**

- i) Briefly explain any three factors that affect sound propagation (15 marks)

ii) Surfaces of room boundaries (walls, ceiling, and floor), as well as other objects in a room, contribute to room acoustics, Explain this statement in relation to sound operations . (5 marks)

### **Question THREE**

Write short notes on the following terms in relation to sound propagation (20 marks)

- i. Attenuation
- ii. Reflection
- iii. Absorption
- iv. Canyon effect
- v. Interference

### **Question FOUR**

You have been approached by a group of student to explain to them how sound travels from the studio to the audience. Outline your presentation using an appropriate diagram. (20 marks)

### **Question FIVE**

- a) Highlight the importance of digital editing in radio broadcasting today. (10 marks)
- b) Distinguish between destructive and non destructive editing in radio production (4 marks)
- c) Explain any FOUR techniques an audio engineer can use to reduce HUM (6 Marks)