



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2022/2023 ACADEMIC YEAR  
THIRD YEAR FIRST SEMESTER**

**SCHOOL OF ARTS & SOCIAL SCIENCES  
BACHELOR OF COMMUNICATION & JOURNALISM**

**COURSE CODE: CMJ 3106-1  
COURSE TITLE: BROADCAST SYSTEMS &  
PRODUCTION EQUIPMENT**

**DATE: 8TH DECEMBER, 2022**

**TIME: 1100-1300**

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**INSTRUCTION:**

**ANSWER QUESTION ONE AND ANY OTHER TWO**

1. (a) With the aid of a diagram, describe how radio signals are transmitted from the studio to our homes. **(8MKS)**

(b) Using examples, explain how the following factors may affect transmission of broadcast signals:

I. Weather **(3MKS)**

II. Altitude **(3MKS)**

III. Distance from station base **(3MKS)**

IV. Type of transmitter **(3MKS)**

2. Working with the audio console for Y2KFm radio, describe how you will use the following practices during a newscast.

a) Equalisation **(3MKS)**

b) Mixing **(3MKS)**

c) Monitoring **(3MKS)**

d) Channel fading **(3MKS)**

e) Patching **(3MKS)**

3. Identify at least **five (5)** equipment in the diagram below and explain how they are used in a radio studio. **(15MKS)**



4. *“Various situations will require different lighting”*. Based on this statement, explain how the following lights can be used in a broadcast production:

a) Fill light **(3MKS)**

b) Key light **(3MKS)**

c) Bounced light **(3MKS)**

d) Existing (natural light) **(3MKS)**

e) Area lighting **(3MKS)**

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