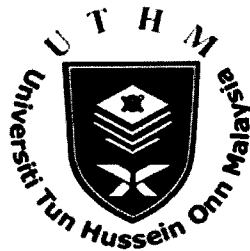


CONFIDENTIAL



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2011/2012**

COURSE NAME : **AUDIO VIDEO BROADCASTING
TECHNOLOGY**

COURSE CODE : **DEV 3113**

PROGRAMME : **3 DET**

EXAMINATION DATE : **MARCH 2012**

DURATION : **2 ½ HOURS**

INSTRUCTIONS : **ANSWER FOUR (4) QUESTIONS
ONLY**

THIS QUESTION PAPER CONSISTS OF FIVE (5) PAGES

CONFIDENTIAL

- Q1**
- (a) (i) State three (3) main components for audio/video transmission.
(3 marks)
 - (ii) Briefly discuss the functions of each component.
(5 marks)
 - (b) (i) Draw the block diagram for AM and FM transmitter.
(8 marks)
 - (ii) State the advantages of FM compared to AM.
(2 marks)
 - (iii) State an advantage of AM wave.
(2 marks)
 - (c) (i) Define Modulation process.
(2 marks)
 - (ii) List down three (3) the most common types of modulation.
(3 marks)
- Q2**
- (a) State three (3) types of radio distribution techniques.
(3 marks)
 - (b) Discuss how an audio streaming process works.
(4 marks)

- (c) (i) Discuss the application of Encoder in radio internet distribution.
(6 marks)
- (ii) State the main advantage of radio internet.
(2 marks)
- (d) Describe features for *On-Demand* program to be applied on radio internet.
(4 marks)
- (e) Compare a cable radio over satellite radio.
(6 marks)
- Q3** (a) (i) Describe an audio console.
(5 marks)
- (ii) State three (3) primary functions of an audio console.
(3 marks)
- (b) (i) State the functions of VU meter.
(2 marks)
- (ii) State two (2) disadvantages of VU meter.
(2 marks)
- (c) (i) State three (3) reasons for audio editing.
(3 marks)
- (ii) Categorize the type of audio editing.
(2 marks)

(iii) Discuss each of types for the answer in Q3(c)(ii).

(2 marks)

(d) Give some brief information about device below.

(i) Monitoring speaker

(ii) Headphone

(iii) Cue speaker

(6 marks)

Q4 (a) Basic standard for TV broadcasting is divided into CCIR Standard and FCC Standard. Develop a table to compare the standard based on following characteristics.

(i) Lines/picture

(ii) Fields/s

(iii) Color system

(iv) Video Bandwidth

(v) Color sub-carrier

(vi) Sound carrier

(12 marks)

(b) Differentiate between Digital zooming and Optical Zooming.

(4 marks)

(c) (i) Define Aspect Ratio.

(2 marks)

(ii) State three (3) common types of aspect ratios TV screen.

(3 marks)

- (d) A best feature for a video camera is the ability to record an action in a totally dark. Describe how this feature works.

(4 marks)

- Q5** (a) (i) State two (2) categories of studio lighting.

(2 marks)

- (ii) Discuss the advantages and disadvantages of categories.

(8 marks)

- (b) Differentiate between DVD and VCD.

(6 marks)

- (c) Give a reason to use *in-door* and *out-door* antenna?

(2 marks)

- (d) (i) Briefly explain what is a parasite element.

(2 marks)

- (ii) State two (2) types of parasite element.

(2 marks)

- (iii) List down three (3) steps for antenna installation.

(3 marks)