

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY (I.T.E)
FIRST SEMESTER 2021/2022 SESSION EXAMINATION

COURSE CODE: ITE551

TITLE: RADIO AND TELEVISION

INSTRUCTIONS

ANSWER ANY FIVE (5) QUESTIONS.

TIME ALLOWED: 2 1/2 HOURS.

- 1a) Explain what is ionosphere.
 - b) What do you understand by radio wave?
 - c) What are the three mode of radio wave propagation?
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- 2a) Explain what is carrier wave.
 - b) How does it affect that of propagation wave in amplitude modulation?
 - c) Explain what is amplitude modulation (AM).
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- 3a) Explain radio wave propagation through internet.
 - b) Explain what is skip distance in radio wave propagation.
 - c) Distinguish between AM and FM receiver.
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- 4a) Draw and label the diagram of a tunned radio receiver.
 - b) Explain the functions of the different stages of a tunned radio receiver.
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- 5a) Draw and label the diagram of a superheterodyne receiver.
 - b) Explain the function of the different stages of a superheterodyne receiver.
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- 6a) Explain the function of a television camera.
 - b) Explain what you understand by television signal.
 - c) How does a television receiver works?