

Roll No _____

Script No. _____



SINDH BOARD OF TECHNICAL EDUCATION KARACHI

DIPLOMA OF ASSOCIATE ENGINEER 3rd YEAR

MODEL PAPER FOR

ANNUAL EXAMINATION 2021

Technologies: Electronics

SUBJECT: ELT-312 Communication-II

SECTION "A" OBJECTIVE

Instructions:

- Attempt all questions.
- All questions carry equal marks.
- Question paper must be returned back to invigilator within the scheduled time.

TIME: 40 Minutes
MAX. MARKS: 25

Q1.(a) Fill In the Blanks

Max Marks 10

1. The word communication is derived from latin terms _____ mean common.
2. Modem stand for _____.
3. Audio frequency rang is _____ Hz.
4. A wave of 1GHZ was.
5. Unwanted signal that distort a transmitter signal is called _____.

Q.1(b) Encircle "T" for true and "F" for false:

Max Marks 8

1. AM stand for Amplitude modulation. (T / F)
2. FM range is 108 MHZ-200MHZ. (T / F)
3. Glass and plastic are used in optical fiber. (T / F)
4. The frequency formula is $F = \frac{v}{\lambda}$. (T / F)
5. PM is the types of modulation. (T / F)
6. Decrease the strength of signal is not known as alternation. (T / F)
7. Decibel (db) unit for expressing the ratio between two physical quantities. (T / F)
8. There are among digital devices. (T / F)

Q1.(c) Multiple choice questions:

Max Marks 7

1. One decibel (0.1 bel) equals times the common logarithm of power ratio.
(a) 4 (b) 5 (c) 10
2. In frequency modulation amplitude of modulated wave remains.
(a) Negative (b) Constant (c) Position
3. In Amplitude modulations wave remain.
(a) Positive (b) Negative (c) Constant
4. In Communication ISB Stand for.
(a) Internal side band (b) Independent side band (c) International side band
5. VHF Range
(a) 30-300 MHz (b) 30-300 GHz (c) 30-300 KHz
6. In class A amplifier signal ampli.
(a) 180 (b) 270 (c) 360
7. A repeater uses two frequencies a transmit frequency.
(a) Receive Frequency (b) Modulated Frequency (c) Non of Above

Signature of Candidate

Seal of Examination Centre

Signature of Invigilator

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SECTION "B" & "C"

TIME: 2.40 HOURS

MAX. MARKS: 25

Section "B"

(Short Answer Questions)

Max. Marks: 15

Q2: Attempt any Six questions from the following. All questions carry equal marks.

1. Define the term transmission of an electromagnetic wave.
2. Enlist types of modulation.
3. Define modulation index.
4. Draw the block diagram of SSB transmission.
5. Describe the need of repeater.
6. Describe noise.
7. Draw the circuit diagram of modulated class C amplifier.
8. Describe the working principal of transformer.
9. Enlist system of FM modulation.
10. Define phase modulation.

Section "C"

(Descriptive Answer Questions)

Max. Marks: 10

Q3: Attempt all questions from the following. All questions carry equal marks.

1. Explain Armstrong method of FM generations.

OR

Explain the working of DSB-SC

2. Draw the block diagram of repeater and explain its working principal.

OR

Compare amplitude modulation with FM Modulation
