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# Technician Question Pool

## July 2018 to June 2022

### The MORE Project

<http://n2re.org/m-o-r-e-project>

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# Station Equipment

## No-Nonsense pages 84 - 86

**Receivers, transmitters, transceivers, modulation, transverters, low power and weak signal operation, transmit and receive amplifiers**

In the early days of radio, amateur radio operators used separate receivers and transmitter units. Nowadays, however, most use radios called transceivers that combine these functions. Amplifiers are used to boost the power output of the radio.



# T7A02

What is a transceiver?

- A. A device that combines a receiver and transmitter
- B. A device for matching feed line impedance to 50 ohms
- C. A device for automatically sending and decoding Morse code
- D. A device for converting receiver and transmitter frequencies to another band



SE1 Q1 of 10

# T7A02

What is a transceiver?

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- B. A device for matching feed line impedance to 50 ohms
- C. A device for automatically sending and decoding Morse code
- D. A device for converting receiver and transmitter frequencies to another band



# T7A06

What device converts the RF input and output of a transceiver to another band?

- A. High-pass filter
- B. Low-pass filter
- C. Transverter
- D. Phase converter



SE1 Q2 of 10

# T7A06

What device converts the RF input and output of a transceiver to another band?

- A. High-pass filter
- B. Low-pass filter
- C. Transverter**
- D. Phase converter





# T7A10

What device increases the transmitted output power from a transceiver?

- A. A voltage divider
- B. An RF power amplifier
- C. An impedance network
- D. All of these choices are correct



SE1 Q3 of 10

# T7A10

What device increases the transmitted output power from a transceiver?

- A. A voltage divider
- B. An RF power amplifier**
- C. An impedance network
- D. All of these choices are correct





# T7A09

What is the function of the SSB/CW-FM switch on a VHF power amplifier?

- A. Change the mode of the transmitted signal
- B. Set the amplifier for proper operation in the selected mode
- C. Change the frequency range of the amplifier to operate in the proper segment of the band
- D. Reduce the received signal noise



SE1 Q4 of 10

# T7A09

What is the function of the SSB/CW-FM switch on a VHF power amplifier?

A. Change the mode of the transmitted signal

**B. Set the amplifier for proper operation in the selected mode**

C. Change the frequency range of the amplifier to operate in the proper segment of the band

D. Reduce the received signal noise



# T7A01

Which term describes the ability of a receiver to detect the presence of a signal?

- A. Linearity
- B. Sensitivity
- C. Selectivity
- D. Total Harmonic Distortion



SE1 Q5 of 10

# T7A01

Which term describes the ability of a receiver to detect the presence of a signal?

- A. Linearity
- B. Sensitivity**
- C. Selectivity
- D. Total Harmonic Distortion



# T7A04

Which term describes the ability of a receiver to discriminate between multiple signals?

- A. Discrimination ratio
- B. Sensitivity
- C. Selectivity
- D. Harmonic distortion



SE1 Q6 of 10

# T7A04

Which term describes the ability of a receiver to discriminate between multiple signals?

- A. Discrimination ratio
- B. Sensitivity
- C. Selectivity**
- D. Harmonic distortion





# T7A11

Where is an RF preamplifier installed?

- A. Between the antenna and receiver
- B. At the output of the transmitter power amplifier
- C. Between the transmitter and the antenna tuner
- D. At the output of the receiver audio amplifier



SE1 Q7 of 10

# T7A11

Where is an RF preamplifier installed?

- A. Between the antenna and receiver**
- B. At the output of the transmitter power amplifier
- C. Between the transmitter and the antenna tuner
- D. At the output of the receiver audio amplifier



# T7A03

Which of the following is used to convert a signal from one frequency to another?

- A. Phase splitter
- B. Mixer
- C. Inverter
- D. Amplifier



# T7A03

Which of the following is used to convert a signal from one frequency to another?

- A. Phase splitter
- B. Mixer**
- C. Inverter
- D. Amplifier



# T7A05

What is the name of a circuit that generates a signal at a specific frequency?

- A. Reactance modulator
- B. Phase modulator
- C. Low-pass filter
- D. Oscillator



SE1 Q9 of 10

# T7A05

What is the name of a circuit that generates a signal at a specific frequency?

- A. Reactance modulator
- B. Phase modulator
- C. Low-pass filter
- D. Oscillator**





# T7A08

Which of the following describes combining speech with an RF carrier signal?

- A. Impedance matching
- B. Oscillation
- C. Modulation
- D. Low-pass filtering



SE1 Q10 of 10

# T7A08

Which of the following describes combining speech with an RF carrier signal?

- A. Impedance matching
- B. Oscillation
- C. Modulation**
- D. Low-pass filtering





A non-profit initiative by the IEEE and ARDC to increase the numbers of youth (12-18) and non-males in Amateur Radio. Participants earn FCC licenses and receive free 2-way radios.

For MORE information: [n2re.org/m-o-r-e-project](http://n2re.org/m-o-r-e-project)  
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