

Results for sample technician2014 test paper

Your answers are marked like this:

✓ **A. You got this question right, this is your correct answer.**

✗ *A. You got this question wrong, this is your incorrect answer.*

✓ *A. You got this question wrong, this is the correct answer.*

✓ **A. You didnt answer this question but this would be the correct answer.**

Subelement T0

1: T0A03

What is connected to the green wire in a three-wire electrical AC plug?

- A. Neutral
- B. Hot

✓ **C. Safety ground**

- D. The white wire

2: T0B11

Which of the following establishes grounding requirements for an amateur radio tower or antenna?

- A. FCC Part 97 Rules

✓ **B. Local electrical codes**

- C. FAA tower lighting regulations
- D. Underwriters Laboratories' recommended practices

3: T0C13

If the averaging time for exposure is 6 minutes, how much power density is permitted if the signal is present for 3 minutes and absent for 3 minutes rather than being present for the entire 6 minutes?

- A. 3 times as much
- B. 1/2 as much

✓ **C. 2 times as much**

- D. There is no adjustment allowed for shorter exposure times

Subelement T1

4: T1A01

Which of the following is a purpose of the Amateur Radio Service as stated in the FCC rules and regulations?

- A. Providing personal radio communications for as many citizens as possible
- B. Providing communications for international non-profit organizations
- ☒ **C. Advancing skills in the technical and communication phases of the radio art**
- D. All of these choices are correct

5: T1B11

What emission modes are permitted in the mode-restricted sub-bands at 50.0 to 50.1 MHz and 144.0 to 144.1 MHz?

- ☒ **A. CW only**
- B. CW and RTTY
- C. SSB only
- D. CW and SSB

6: T1C01

Which type of call sign has a single letter in both its prefix and suffix?

- A. Vanity
- B. Sequential
- ☒ **C. Special event**
- D. In-memoriam

7: T1D12

Under which of the following circumstances may an amateur radio station engage in broadcasting?

- ☒ **A. Under no circumstances**
- ☒ **B. When transmitting code practice, information bulletins, or transmissions necessary to provide emergency communications**
- C. At any time as long as no music is transmitted
- D. At any time as long as the material being transmitted did not originate from a commercial broadcast station

8: T1E05

What is an amateur station control point?

- A. The location of the station's transmitting antenna
- B. The location of the station transmitting apparatus
- ☒ **C. The location at which the control operator function is performed**
- D. The mailing address of the station licensee

9: T1F09

What type of amateur station simultaneously retransmits the signal of another amateur station on a different channel or channels?

- A. Beacon station
- B. Earth station
- ☒ **C. Repeater station**
- D. Message forwarding station

Subelement T2

10: T2A12

Which of the following is a guideline to use when choosing an operating frequency for calling CQ?

- A. Listen first to be sure that no one else is using the frequency
- B. Ask if the frequency is in use
- C. Make sure you are in your assigned band
- ☒ **D. All of these choices are correct**

11: T2B11

Which Q signal indicates that you are changing frequency?

- A. QRU
- ☒ **B. QSY**
- C. QSL
- D. QRZ

12: T2C09

Are amateur station control operators ever permitted to operate outside the frequency privileges of their license class?

- ☒ **A. No**
- B. Yes, but only when part of a FEMA emergency plan
- C. Yes, but only when part of a RACES emergency plan
- ☒ **D. Yes, but only if necessary in situations involving the immediate safety of human life or protection of property**

Subelement T3

13: T3A06

What term is commonly used to describe the rapid fluttering sound sometimes heard from mobile stations that are moving while transmitting?

- A. Flip-flopping
- ☒ **B. Picket fencing**
- C. Frequency shifting
- D. Pulsing

14: T3B05

How does the wavelength of a radio wave relate to its frequency?

- A. The wavelength gets longer as the frequency increases
- ☒ **B. The wavelength gets shorter as the frequency increases**
- C. There is no relationship between wavelength and frequency
- D. The wavelength depends on the bandwidth of the signal

15: T3C02

Which of the following might be happening when VHF signals are being received from long distances?

- A. Signals are being reflected from outer space
- B. Signals are arriving by sub-surface ducting
- C. Signals are being reflected by lightning storms in your area

✓ **D. Signals are being refracted from a sporadic E layer**

Subelement T4

16: T4A02

How might a computer be used as part of an amateur radio station?

- A. For logging contacts and contact information
- B. For sending and/or receiving CW
- C. For generating and decoding digital signals

✓ **D. All of these choices are correct**

17: T4B06

Which of the following controls could be used if the voice pitch of a single-sideband signal seems too high or low?

- A. The AGC or limiter
- B. The bandwidth selection
- C. The tone squelch

✓ **D. The receiver RIT or clarifier**

Subelement T5

18: T5A07

Which of the following is a good electrical conductor?

- A. Glass
- B. Wood

✓ **C. Copper**

- D. Rubber

19: T5B09

What is the approximate amount of change, measured in decibels (dB), of a power increase from 5 watts to 10 watts?

- A. 2 dB

✓ **B. 3 dB**

- C. 5 dB
- D. 10 dB

20: T5C05

What is the unit of frequency?

✓ **A. Hertz**

- B. Henry

- C. Farad
- D. Tesla

21: T5D07

What is the current flow in a circuit with an applied voltage of 120 volts and a resistance of 80 ohms?

- A. 9600 amperes
- B. 200 amperes
- C. 0.667 amperes
- ✓ **D. 1.5 amperes**

Subelement T6

22: T6A05

What type of electrical component consists of two or more conductive surfaces separated by an insulator?

- A. Resistor
- ✗ B. Potentiometer
- C. Oscillator
- ✓ **D. Capacitor**

23: T6B06

How is the cathode lead of a semiconductor diode usually identified?

- A. With the word cathode
- ✓ **B. With a stripe**
- C. With the letter C
- D. All of these choices are correct

24: T6C04

What is component 3 in figure T1?

- A. Resistor
- B. Transistor
- ✓ **C. Lamp**
- D. Ground symbol

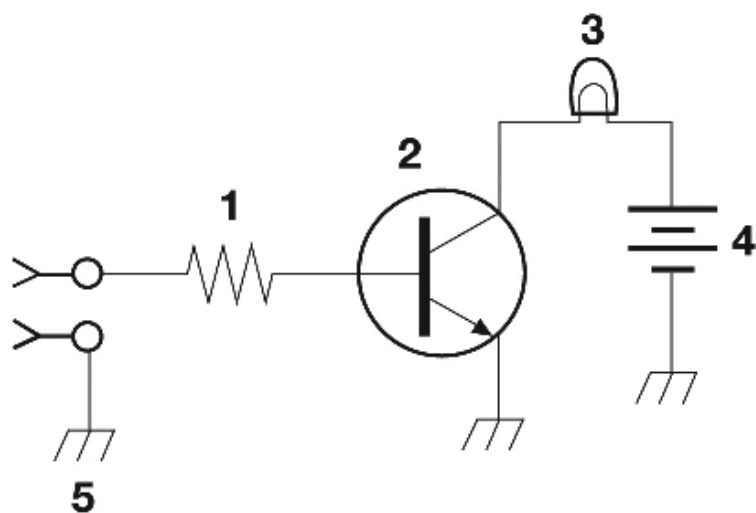


Figure T-1

25: T6D07

Which of the following is commonly used as a visual indicator?

- ☒ **A. LED**
- ☐ B. FET
- ☐ C. Zener diode
- ☐ D. Bipolar transistor

Subelement T7

26: T7A06

What device takes the output of a low-powered 28 MHz SSB exciter and produces a 222 MHz output signal?

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

27: T7B03

Which of the following may be a cause of radio frequency interference?

- ☐ A. Fundamental overload
- ☐ B. Harmonics
- ☐ C. Spurious emissions
- ☒ **D. All of these choices are correct**

28: T7C07

What happens to power lost in a feed line?

- ☐ A. It increases the SWR
- ☐ B. It comes back into your transmitter and could cause damage

☒ **C. It is converted into heat**

D. It can cause distortion of your signal

29: T7D03

How is an ammeter usually connected to a circuit?

☒ **A. In series with the circuit**

B. In parallel with the circuit

C. In quadrature with the circuit

D. In phase with the circuit

Subelement T8

30: T8A08

What is the approximate bandwidth of a single sideband voice signal?

A. 1 kHz

☒ **B. 3 kHz**

C. 6 kHz

D. 15 kHz

31: T8B02

How much transmitter power should be used on the uplink frequency of an amateur satellite or space station?

A. The maximum power of your transmitter

☒ **B. The minimum amount of power needed to complete the contact**

C. No more than half the rating of your linear amplifier

D. Never more than 1 watt

32: T8C04

Which of the following is good procedure when contacting another station in a radio contest?

A. Be sure to sign only the last two letters of your call if there is a pileup calling the station

B. Work the station twice to be sure that you are in his log

☒ **C. Send only the minimum information needed for proper identification and the contest exchange**

D. All of these choices are correct

33: T8D04

What type of transmission is indicated by the term NTSC?

A. A Normal Transmission mode in Static Circuit

B. A special mode for earth satellite uplink

☒ **C. An analog fast scan color TV signal**

D. A frame compression scheme for TV signals

Subelement T9

34: T9A14

Which of the following terms describes a type of loading when referring to an antenna?

✓ **A. Inserting an inductor in the radiating portion of the antenna to make it electrically longer**

- B. Inserting a resistor in the radiating portion of the antenna to make it resonant
- C. Installing a spring at the base of the antenna to absorb the effects of collisions with other objects
- D. Making the antenna heavier so it will resist wind effects when in motion

35: T9B04

What does an antenna tuner do?

✓ **A. It matches the antenna system impedance to the transceiver's output impedance**

- B. It helps a receiver automatically tune in weak stations
- C. It allows an antenna to be used on both transmit and receive
- D. It automatically selects the proper antenna for the frequency band being used

Results:

You scored 32 correct answers and 3 incorrect answers from a total of 35.

You would have passed the exam! Congratulations!

e1

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