

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: T0A06

What is a good way to guard against electrical shock at your station?

- A. Use three-wire cords and plugs for all AC powered equipment
- B. Connect all AC powered station equipment to a common safety ground
- C. Use a circuit protected by a ground-fault interrupter

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

2: *You forgot to answer this one!* T0B09

Why should you avoid attaching an antenna to a utility pole?

- A. The antenna will not work properly because of induced voltages
- B. The utility company will charge you an extra monthly fee
- ✓ **C. The antenna could contact high-voltage power wires**
- D. All of these choices are correct

3: T0C01

What type of radiation are VHF and UHF radio signals?

- A. Gamma radiation
- B. Ionizing radiation
- C. Alpha radiation

✓ **D. Non-ionizing radiation**

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: T1B07

What amateur band are you using if you are transmitting on 223.50 MHz?

- A. 15 meter band
- B. 10 meter band
- C. 2 meter band

✓ **D. 1.25 meter band**

6: T1C07

What may result when correspondence from the FCC is returned as undeliverable because the grantee failed to provide the correct mailing address?

- A. Fine or imprisonment

✓ **B. Revocation of the station license or suspension of the operator license**

- C. Require the licensee to be re-examined
- D. A reduction of one rank in operator class

7: T1D02

On which of the following occasions may an FCC-licensed amateur station exchange messages with a U.S. military station?

✓ **A. During an Armed Forces Day Communications Test**

- B. During a Memorial Day Celebration
- C. During an Independence Day celebration
- D. During a propagation test

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: T1F13

When must the station licensee make the station and its records available for FCC inspection?

- A. At any time ten days after notification by the FCC of such an inspection

✓ **B. At any time upon request by an FCC representative**

- C. Only after failing to comply with an FCC notice of violation
- D. Only when presented with a valid warrant by an FCC official or government agent

Subelement T2

10: T2A09

What brief statement is often transmitted in place of CQ to indicate that you are listening on a repeater?

- A. The words Hello test followed by your call sign

✓ B. Your call sign

- C. The repeater call sign followed by your call sign
- D. The letters QSY followed by your call sign

11: T2B02

What is the term used to describe the use of a sub-audible tone transmitted with normal voice audio to open the squelch of a receiver?

- A. Carrier squelch
- B. Tone burst
- C. DTMF

✓ D. CTCSS

12: T2C10

What is the preamble in a formal traffic message?

- A. The first paragraph of the message text
- B. The message number
- C. The priority handling indicator for the message

✓ D. The information needed to track the message as it passes through the amateur radio traffic handling system

Subelement T3

13: T3A10

What may occur if data signals propagate over multiple paths?

A. Transmission rates can be increased by a factor equal to the number of separate paths observed

xB. Transmission rates must be decreased by a factor equal to the number of separate paths observed

C. No significant changes will occur if the signals are transmitting using FM

✓ D. Error rates are likely to increase

14: T3B10

What frequency range is referred to as HF?

- A. 300 to 3000 MHz
- B. 30 to 300 MHz

✓ C. 3 to 30 MHz

D. 300 to 3000 kHz

15: T3C10

What is the radio horizon?

✓ A. The distance over which two stations can communicate by direct path

- B. The distance from the ground to a horizontally mounted antenna
- C. The farthest point you can see when standing at the base of your antenna tower
- D. The shortest distance between two points on the Earth's surface

Subelement T4

16: T4A01

Which of the following is true concerning the microphone connectors on amateur transceivers?

- A. All transceivers use the same microphone connector type
- ✓ **B. Some connectors include push-to-talk and voltages for powering the microphone**
- C. All transceivers using the same connector type are wired identically
- D. Un-keyed connectors allow any microphone to be connected

17: T4B04

What is a way to enable quick access to a favorite frequency on your transceiver?

- A. Enable the CTCSS tones
- ✓ **B. Store the frequency in a memory channel**
- C. Disable the CTCSS tones
- D. Use the scan mode to select the desired frequency

Subelement T5

18: T5A09

What is the name for a current that reverses direction on a regular basis?

- ✓ **A. Alternating current**
- B. Direct current
- C. Circular current
- D. Vertical current

19: T5B06

If an ammeter calibrated in amperes is used to measure a 3000-milliamperere current, what reading would it show?

- A. 0.003 amperes
- B. 0.3 amperes
- ✓ **C. 3 amperes**
- D. 3,000,000 amperes

20: T5C01

What is the ability to store energy in an electric field called?

- A. Inductance
- B. Resistance
- C. Tolerance
- ✓ **D. Capacitance**

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: T6A11

Which of the following battery types is not rechargeable?

- A. Nickel-cadmium

✓ **B. Carbon-zinc**

- C. Lead-acid
- D. Lithium-ion

23: T6B09

What are the names of the two electrodes of a diode?

- A. Plus and minus
- B. Source and drain

✓ **C. Anode and cathode**

- D. Gate and base

24: T6C08

What is component 9 in figure T2?

- A. Variable capacitor
- B. Variable inductor

✓ **C. Variable resistor**

- D. Variable transformer

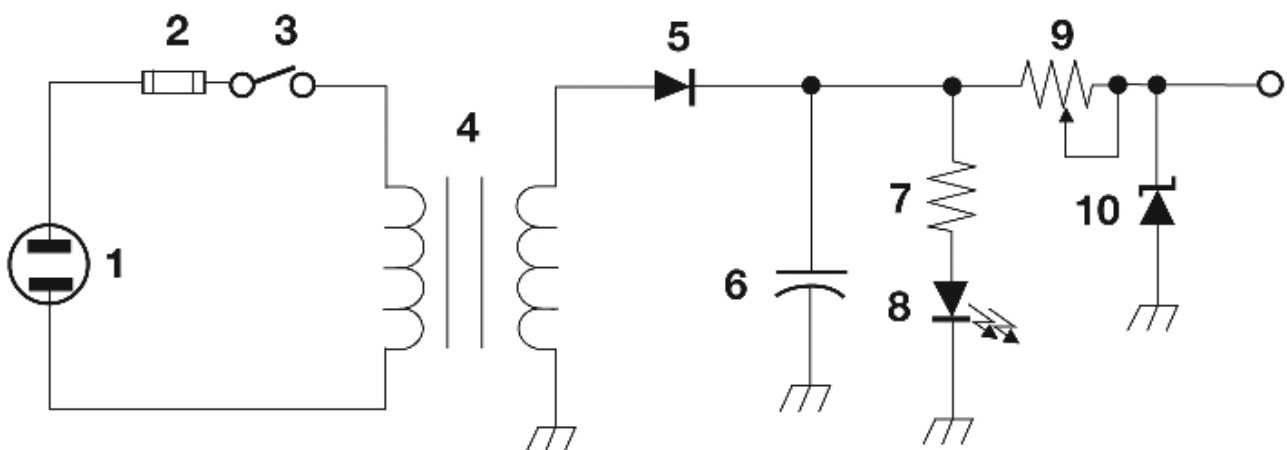


Figure T-2

25: T6D09

What is the name of a device that combines several semiconductors and other components into one package?

- A. Transducer
- B. Multi-pole relay
- ☒ **C. Integrated circuit**
- D. Transformer

Subelement T7

26: T7A09

Which of the following devices is most useful for VHF weak-signal communication?

- A. A quarter-wave vertical antenna
- ☒ **B. A multi-mode VHF transceiver**
- C. An omni-directional antenna
- D. A mobile VHF FM transceiver

27: T7B05

How can overload of a non-amateur radio or TV receiver by an amateur signal be reduced or eliminated?

- ☒ **A. Block the amateur signal with a filter at the antenna input of the affected receiver**
- ☐ **B. Block the interfering signal with a filter on the amateur transmitter**
- C. Switch the transmitter from FM to SSB
- D. Switch the transmitter to a narrow-band mode

28: T7C11

What is a disadvantage of air core coaxial cable when compared to foam or solid dielectric types?

- A. It has more loss per foot
- B. It cannot be used for VHF or UHF antennas
- ☒ **C. It requires special techniques to prevent water absorption**
- D. It cannot be used at below freezing temperatures

29: T7D01

Which instrument would you use to measure electric potential or electromotive force?

- A. An ammeter
- ☒ **B. A voltmeter**
- C. A wavemeter
- D. An ohmmeter

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: T8B10

What do the initials LEO tell you about an amateur satellite?

- A. The satellite battery is in Low Energy Operation mode
- B. The satellite is performing a Lunar Ejection Orbit maneuver

✓ **C. The satellite is in a Low Earth Orbit**

- D. The satellite uses Light Emitting Optics

32: T8C12

What is meant by Voice Over Internet Protocol (VoIP) as used in amateur radio?

- A. A set of rules specifying how to identify your station when linked over the Internet to another station
- B. A set of guidelines for working DX during contests using Internet access
- C. A technique for measuring the modulation quality of a transmitter using remote sites monitored via the Internet

✓ **D. A method of delivering voice communications over the Internet using digital techniques**

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: T9A13

Why are VHF or UHF mobile antennas often mounted in the center of the vehicle roof?

- A. Roof mounts have the lowest possible SWR of any mounting configuration
- B. Only roof mounting can guarantee a vertically polarized signal

✓ **C. A roof mounted antenna normally provides the most uniform radiation pattern**

- D. Roof mounted antennas are always the easiest to install

35: T9B07

Which of the following is true of PL-259 type coax connectors?

- A. They are preferred for microwave operation
- B. They are water tight

✓ **C. They are commonly used at HF frequencies**

- D. They are a bayonet type connector

Results:

You scored 31 correct answers and 4 incorrect answers from a total of 35.

You also forgot to answer 1 questions in the exam.

You would have passed the exam! Congratulations!

e)

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