

## 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.**

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### 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: T0B01

**When should members of a tower work team wear a hard hat and safety glasses?**

- A. At all times except when climbing the tower
- B. At all times except when belted firmly to the tower

✓ **C. At all times when any work is being done on the tower**

- D. Only when the tower exceeds 30 feet in height

3: T0C09

**How can you make sure your station stays in compliance with RF safety regulations?**

- A. By informing the FCC of any changes made in your station

✓ **B. By re-evaluating the station whenever an item of equipment is changed**

- C. By making sure your antennas have low SWR
- D. All of these choices are correct

### Subelement T1

4: T1A14

**What must you do if you are operating on the 23 cm band and learn that you are interfering with a radiolocation station outside the United States?**

**✓ A. Stop operating or take steps to eliminate the harmful interference**

- B. Nothing, because this band is allocated exclusively to the amateur service
- C. Establish contact with the radiolocation station and ask them to change frequency
- D. Change to CW mode, because this would not likely cause interference

5: T1B02

**Why are the frequency assignments for some U.S. Territories different from those in the 50 U.S. States?**

**✓ A. Some U. S. Territories are located in ITU regions other than region 2****x B. Territorial governments are allowed to select their own frequency allocations**

- C. Territorial frequency allocations must also include those of adjacent countries
- D. Any territory that was in existence before the ratification of the Communications Act of 1934 is exempt from FCC frequency regulations

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: T1D10

**What is the meaning of the term broadcasting in the FCC rules for the amateur services?**

**x A. Two-way transmissions by amateur stations**

- B. Transmission of music
- C. Transmission of messages directed only to amateur operators
- ✓ D. Transmissions intended for reception by the general public**

8: T1E02

**Who may a station licensee designate to be the control operator of an amateur station?**

- A. Any U.S. citizen or registered alien
- B. Any family member of the station licensee
- C. Any person over the age of 18

**✓ D. Only a person for whom an amateur operator/primary station license grant appears in the FCC database or who is authorized for alien reciprocal operation**

9: T1F01

**What type of identification is being used when identifying a station on the air as Race Headquarters?**

**✓ A. Tactical call sign**

- B. An official call sign reserved for RACES drills

**x C. SSID**

- D. Broadcast station

## Subelement T2

10: T2A11

**Which of the following is an FCC rule regarding power levels used in the amateur bands, under normal, non-distress circumstances?**

- A. There is no limit to power as long as there is no interference with other services
- B. No more than 200 watts PEP may be used
- C. Up to 1500 watts PEP may be used on any amateur frequency without restriction
- ✓ **D. While not exceeding the maximum power permitted on a given band, use the minimum power necessary to carry out the desired communication**

11: T2B05

**What determines the amount of deviation of an FM (as opposed to PM) signal?**

- A. Both the frequency and amplitude of the modulating signal
- B. The frequency of the modulating signal
- ✓ **C. The amplitude of the modulating signal**
- ✗ **D. The relative phase of the modulating signal and the carrier**

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: T3A02

**Why are UHF signals often more effective from inside buildings than VHF signals?**

- A. VHF signals lose power faster over distance
- ✓ **B. The shorter wavelength allows them to more easily penetrate the structure of buildings**
- C. This is incorrect; VHF works better than UHF inside buildings
- D. UHF antennas are more efficient than VHF antennas

14: T3B07

**What property of radio waves is often used to identify the different frequency bands?**

- ✓ **A. The approximate wavelength**
- B. The magnetic intensity of waves
- C. The time it takes for waves to travel one mile
- D. The voltage standing wave ratio of waves

15: T3C11

**Why do VHF and UHF radio signals usually travel somewhat farther than the visual line of sight distance between two stations?**

- A. Radio signals move somewhat faster than the speed of light
- B. Radio waves are not blocked by dust particles
- ✓ **C. The Earth seems less curved to radio waves than to light**
- D. Radio waves are blocked by dust particles

## 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: T4B07

**What does the term RIT mean?**

- A. Receiver Input Tone
- ✓ **B. Receiver Incremental Tuning**
- C. Rectifier Inverter Test
- D. Remote Input Transmitter

## Subelement T5

18: T5A10

**Which term describes the rate at which electrical energy is used?**

- A. Resistance
- B. Current
- ✓ **C. Power**
- D. Voltage

19: T5B13

**If a frequency readout shows a reading of 2425 MHz, what frequency is that in GHz?**

- A. 0.002425 GHZ
- B. 24.25 GHz
- ✓ **C. 2.425 GHz**
- D. 2425 GHz

20: T5C02

**What is the basic unit of capacitance?**

- ✓ **A. The farad**

- B. The ohm
- C. The volt
- D. The henry

21: T5D04

**What is the resistance of a circuit in which a current of 3 amperes flows through a resistor connected to 90 volts?**

- A. 3 ohms
- ✓ B. 30 ohms
- C. 93 ohms
- D. 270 ohms

## Subelement T6

22: T6A01

**What electrical component is used to oppose the flow of current in a DC circuit?**

- xA. Inductor
- ✓ B. Resistor
- C. Voltmeter
- D. Transformer

23: T6B05

**Which of the following electronic components can amplify signals?**

- ✓ A. Transistor
- B. Variable resistor
- C. Electrolytic capacitor
- D. Multi-cell battery

24: T6C01

**What is the name for standardized representations of components in an electrical wiring diagram?**

- A. Electrical depictions
- B. Grey sketch
- ✓ C. Schematic symbols
- D. Component callouts

25: T6D12

**Which of the following is a common reason to use shielded wire?**

- A. To decrease the resistance of DC power connections
- B. To increase the current carrying capability of the wire
- ✓ C. To prevent coupling of unwanted signals to or from the wire
- D. To couple the wire to other signals

## 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: T7B04

**Which of the following is a way to reduce or eliminate interference by an amateur transmitter to a nearby telephone?**

- A. Put a filter on the amateur transmitter
- B. Reduce the microphone gain
- C. Reduce the SWR on the transmitter transmission line
- ✓ **D. Put a RF filter on the telephone**

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: T7D10

**What is probably happening when an ohmmeter, connected across an unpowered circuit, initially indicates a low resistance and then shows increasing resistance with time?**

- A. The ohmmeter is defective
- ✓ **B. The circuit contains a large capacitor**
- C. The circuit contains a large inductor
- D. The circuit is a relaxation oscillator

## 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: T8C08

**What is required in place of on-air station identification when sending signals to a radio control model using amateur frequencies?**

- A. Voice identification must be transmitted every 10 minutes
- B. Morse code ID must be sent once per hour

✓ **C. A label indicating the licensee s name, call sign and address must be affixed to the transmitter**

D. A flag must be affixed to the transmitter antenna with the station call sign in 1 inch high letters or larger

33: T8D02

**What does the term APRS mean?**

✓ **A. Automatic Packet Reporting System**

- B. Associated Public Radio Station
- C. Auto Planning Radio Set-up
- D. Advanced Polar Radio System

## Subelement T9

34: T9A08

**What is the approximate length, in inches, of a quarter-wavelength vertical antenna for 146 MHz?**

- A. 112
- B. 50

✓ **C. 19**

D. 12

35: T9B10

**What electrical difference exists between the smaller RG-58 and larger RG-8 coaxial cables?**

✗ **A. There is no significant difference between the two types**

B. RG-58 cable has less loss at a given frequency

✓ **C. RG-8 cable has less loss at a given frequency**

D. RG-58 cable can handle higher power levels

**Results:**

**You scored 28 correct answers and 7 incorrect answers from a total of 35.**

**You would have passed the exam! Congratulations!**

e1

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