

## 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: T0A04

**What is the purpose of a fuse in an electrical circuit?**

A. To prevent power supply ripple from damaging a circuit

✓ **B. To interrupt power in case of overload**

C. To limit current to prevent shocks

D. All of these choices are correct

2: T0B05

**What is the purpose of a gin pole?**

A. To temporarily replace guy wires

B. To be used in place of a safety harness

✓ **C. To lift tower sections or antennas**

D. To provide a temporary ground

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: T1A04

**Which of the following meets the FCC definition of harmful interference?**

A. Radio transmissions that annoy users of a repeater

B. Unwanted radio transmissions that cause costly harm to radio station apparatus

✓ **C. That which seriously degrades, obstructs, or repeatedly interrupts a radio communication service operating in accordance with the Radio Regulations**

D. Static from lightning storms

5: T1B10

**Which of the bands above 30 MHz that are available to Technician Class operators have mode-restricted sub-bands?**

☐ A. The 6 meter, 2 meter, and 70 cm bands

☐ B. The 2 meter and 13 cm bands

☒ C. The 6 meter, 2 meter, and 1.25 meter bands

☐ D. The 2 meter and 70 cm bands

6: T1C13

**For which licenses classes are new licenses currently available from the FCC?**

☐ A. Novice, Technician, General, Advanced

☐ B. Technician, Technician Plus, General, Advanced

☐ C. Novice, Technician Plus, General, Advanced

☒ D. Technician, General, Amateur Extra

7: T1D05

**When may amateur radio operators use their stations to notify other amateurs of the availability of equipment for sale or trade?**

☒ A. When the equipment is normally used in an amateur station and such activity is not conducted on a regular basis

☐ B. When the asking price is \$100.00 or less

☐ C. When the asking price is less than its appraised value

☐ D. When the equipment is not the personal property of either the station licensee or the control operator or their close relatives

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: T1F02

**When using tactical identifiers such as Race Headquarters during a community service net operation, how often must your station transmit the station's FCC-assigned call sign?**

☐ A. Never, the tactical call is sufficient

☐ B. Once during every hour

☒ C. At the end of each communication and every ten minutes during a communication

☐ D. At the end of every transmission

## Subelement T2

10: T2A01

**What is the most common repeater frequency offset in the 2 meter band?**

☐ A. Plus 500 kHz

☒ B. Plus or minus 600 kHz

- C. Minus 500 kHz
- D. Only plus 600 kHz

11: T2B03

**Which of the following describes the muting of receiver audio controlled solely by the presence or absence of an RF signal?**

- A. Tone squelch
- ✓ B. Carrier squelch

**x C. CTCSS**

- D. Modulated carrier

12: T2C11

**What is meant by the term check in reference to a formal traffic message?**

✓ **A. The check is a count of the number of words or word equivalents in the text portion of the message**

- B. The check is the value of a money order attached to the message
- C. The check is a list of stations that have relayed the message
- D. The check is a box on the message form that tells you the message was received

## Subelement T3

13: T3A08

**Which of the following is a likely cause of irregular fading of signals received by ionospheric reflection?**

- A. Frequency shift due to Faraday rotation
- B. Interference from thunderstorms

✓ **C. Random combining of signals arriving via different paths**

- D. Intermodulation distortion

14: T3B11

**What is the approximate velocity of a radio wave as it travels through free space?**

- A. 3000 kilometers per second

✓ **B. 300,000,000 meters per second**

- C. 300,000 miles per hour
- D. 186,000 miles per hour

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: T4A03

**Which is a good reason to use a regulated power supply for communications equipment?**

✓ **A. It prevents voltage fluctuations from reaching sensitive circuits**

B. A regulated power supply has FCC approval

x **C. A fuse or circuit breaker regulates the power**

D. Power consumption is independent of load

17: T4B10

**Which of the following is an appropriate receive filter bandwidth to select in order to minimize noise and interference for CW reception?**

✓ **A. 500 Hz**

B. 1000 Hz

C. 2400 Hz

D. 5000 Hz

## Subelement T5

18: T5A11

**What is the basic unit of electromotive force?**

✓ **A. The volt**

B. The watt

C. The ampere

D. The ohm

19: T5B04

**How many volts are equal to one microvolt?**

✓ **A. One one-millionth of a volt**

B. One million volts

C. One thousand kilovolts

D. One one-thousandth of a volt

20: T5C11

**How many amperes are flowing in a circuit when the applied voltage is 12 volts DC and the load is 120 watts?**

A. 0.1 amperes

✓ **B. 10 amperes**

C. 12 amperes

D. 132 amperes

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: T6A03

**What electrical parameter is controlled by a potentiometer?**

- A. Inductance
- ✓ **B. Resistance**
- C. Capacitance
- D. Field strength

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: T6C13

**Which of the following is accurately represented in electrical circuit schematic diagrams?**

- A. Wire lengths
- xB. Physical appearance of components
- ✓ **C. The way components are interconnected**
- D. All of these choices are correct

25: T6D01

**Which of the following devices or circuits changes an alternating current into a varying direct current signal?**

- A. Transformer
- ✓ **B. Rectifier**
- C. Amplifier
- D. Reflector

## Subelement T7

26: T7A10

**What device increases the low-power output from a handheld transceiver?**

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

27: T7B09

**What is a Part 15 device?**

- ✓ **A. An unlicensed device that may emit low powered radio signals on frequencies used by a licensed service**
- B. A type of amateur radio that can legally be used in the citizen s band
- C. A device for long distance communications using special codes sanctioned by the

International Amateur Radio Union

D. A type of test set used to determine whether a transmitter is in compliance with FCC regulation 91.15

28: T7C08

**What instrument other than an SWR meter could you use to determine if a feed line and antenna are properly matched?**

- A. Voltmeter
- B. Ohmmeter
- C. Iambic pentameter

✓ **D. Directional wattmeter**

29: T7D02

**What is the correct way to connect a voltmeter 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: T8A07

**What is the primary advantage of single sideband over FM for voice transmissions?**

- A. SSB signals are easier to tune
- B. SSB signals are less susceptible to interference

✓ **C. SSB signals have narrower bandwidth**

- D. All of these choices are correct

31: T8B06

**Which of the following are inputs to a satellite tracking program?**

- A. The weight of the satellite

✓ **B. The Keplerian elements**

- C. The last observed time of zero Doppler shift
- D. All of these answers are correct

32: T8C03

**What popular operating activity involves contacting as many stations as possible during a specified period of time?**

✓ **A. Contesting**

- B. Net operations
- C. Public service events
- D. Simulated emergency exercises

33: T8D05

**Which of the following is an application of APRS (Automatic Packet Reporting System)?**

✓ **A. Providing real time tactical digital communications in conjunction with a map showing the locations of stations**

- B. Showing automatically the number of packets transmitted via PACTOR during a

specific time interval

- C. Providing voice over Internet connection between repeaters
- D. Providing information on the number of stations signed into a repeater

## Subelement T9

34: T9A02

**Which of the following is true regarding vertical antennas?**

- A. The magnetic field is perpendicular to the Earth
- ✓ B. The electric field is perpendicular to the Earth
- C. The phase is inverted
- D. The phase is reversed

35: T9B08

**Why should coax connectors exposed to the weather be sealed against water intrusion?**

- ✓ A. To prevent an increase in feed line loss
- B. To prevent interference to telephones
- C. To keep the jacket from becoming loose
- D. All of these choices are correct

**Results:**

**You scored 29 correct answers and 6 incorrect answers from a total of 35.**

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

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