

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: T0A07

Which of these precautions should be taken when installing devices for lightning protection in a coaxial cable feed line?

- A. Include a parallel bypass switch for each protector so that it can be switched out of the circuit when running high power
- B. Include a series switch in the ground line of each protector to prevent RF overload from inadvertently damaging the protector
- C. Keep the ground wires from each protector separate and connected to station ground

✓ **D. Ground all of the protectors to a common plate which is in turn connected to an external ground**

2: T0B02

What is a good precaution to observe before climbing an antenna tower?

- A. Make sure that you wear a grounded wrist strap
- B. Remove all tower grounding connections

✓ **C. Put on a climbing harness and safety glasses**

D. All of the these choices are correct

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: T1B03

Which frequency is within the 6 meter band?

- A. 49.00 MHz
- ☒ **B. 52.525 MHz**
- C. 28.50 MHz
- D. 222.15 MHz

6: T1C04

When are you allowed to operate your amateur station in a foreign country?

- ☒ **A. When the foreign country authorizes it**
- B. When there is a mutual agreement allowing third party communications
- C. When authorization permits amateur communications in a foreign language
- D. When you are communicating with non-licensed individuals in another country

7: T1D11

When may an amateur station transmit without identifying?

- A. When the transmissions are of a brief nature to make station adjustments
- B. When the transmissions are unmodulated
- C. When the transmitted power level is below 1 watt
- ☒ **D. When transmitting signals to control a model craft**

8: T1E01

When is an amateur station permitted to transmit without a control operator?

- A. When using automatic control, such as in the case of a repeater
- B. When the station licensee is away and another licensed amateur is using the station
- C. When the transmitting station is an auxiliary station
- ☒ **D. Never**

9: T1F05

What method of call sign identification is required for a station transmitting phone signals?

- A. Send the call sign followed by the indicator RPT
- ☒ **B. Send the call sign using CW or phone emission**
- C. Send the call sign followed by the indicator R
- D. Send the call sign using only phone emission

Subelement T2

10: T2A04

What is an appropriate way to call another station on a repeater if you know the other station's call sign?

- A. Say break, break then say the station's call sign
- ✓ B. Say the station's call sign then identify with your call sign
- C. Say CQ three times then the other station's call sign
- D. Wait for the station to call CQ then answer it

11: T2B09

Which of the following methods is encouraged by the FCC when identifying your station when using phone?

- ✓ A. Use of a phonetic alphabet
- B. Send your call sign in CW as well as voice
- C. Repeat your call sign three times
- D. Increase your signal to full power when identifying

12: T2C06

Which of the following is an accepted practice to get the immediate attention of a net control station when reporting an emergency?

- A. Repeat the words SOS three times followed by the call sign of the reporting station
- B. Press the push-to-talk button three times
- ✓ C. Begin your transmission by saying "Priority" or "Emergency" followed by your call sign
- D. Play a pre-recorded emergency alert tone followed by your call sign

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: T3C05

Which of the following effects might cause radio signals to be heard despite obstructions between the transmitting and receiving stations?

☒ **A. Knife-edge diffraction**

- B. Faraday rotation
- C. Quantum tunneling
- D. Doppler shift

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: T4B02

Which of the following can be used to enter the operating frequency on a modern transceiver?

☒ **A. The keypad or VFO knob**

- B. The CTCSS or DTMF encoder
- C. The Automatic Frequency Control
- D. All of these choices are correct

Subelement T5

18: T5A07

Which of the following is a good electrical conductor?

- A. Glass
- B. Wood

☒ **C. Copper**

- D. Rubber

19: T5B05

Which of the following is equivalent to 500 milliwatts?

- A. 0.02 watts

☒ **B. 0.5 watts**

- C. 5 watts
- D. 50 watts

20: T5C03

What is the ability to store energy in a magnetic field called?

- A. Admittance
- B. Capacitance

C. Resistance

✓ **D. Inductance**

21: T5D06

What is the resistance of a circuit that draws 4 amperes from a 12-volt source?

✓ **A. 3 ohms**

B. 16 ohms

C. 48 ohms

D. 8 Ohms

Subelement T6

22: T6A04

What electrical component stores energy in an electric field?

A. Resistor

✓ **B. Capacitor**

C. Inductor

D. Diode

23: T6B03

Which of these components can be used as an electronic switch or amplifier?

A. Oscillator

B. Potentiometer

✓ **C. Transistor**

D. Voltmeter

24: T6C06

What is component 6 in figure T2?

A. Resistor

✓ **B. Capacitor**

C. Regulator IC

D. Transistor

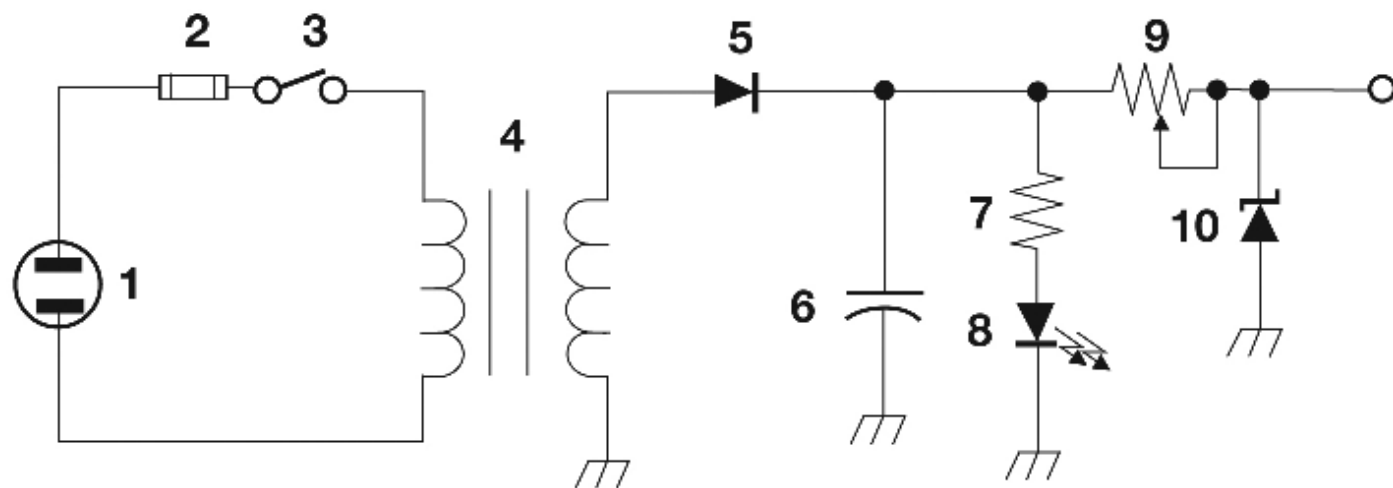


Figure T-2

25: T6D02

What best describes a relay?

- ☒ **A. A switch controlled by an electromagnet**
- ☐ B. A current controlled amplifier
- ☐ C. An optical sensor
- ☐ D. A pass 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: 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: T7C03

What, in general terms, is standing wave ratio (SWR)?

☒ **A. A measure of how well a load is matched to a transmission line**

B. The ratio of high to low impedance in a feed line

C. The transmitter efficiency ratio

D. An indication of the quality of your station's ground connection

29: T7D06

Which of the following might damage a multimeter?

☒ **A. Measuring a voltage too small for the chosen scale**

B. Leaving the meter in the milliamps position overnight

☒ **C. Attempting to measure voltage when using the resistance setting**

D. Not allowing it to warm up properly

Subelement T8

30: T8A10

What is the typical bandwidth of analog fast-scan TV transmissions on the 70 cm band?

A. More than 10 MHz

☒ **B. About 6 MHz**

C. About 3 MHz

D. About 1 MHz

31: T8B05

What is a satellite beacon?

A. The primary transmit antenna on the satellite

B. An indicator light that shows where to point your antenna

C. A reflective surface on the satellite

☒ **D. A transmission from a space station that contains information about a satellite**

32: T8C13

What is the Internet Radio Linking Project (IRLP)?

☒ **A. A technique to connect amateur radio systems, such as repeaters, via the Internet using Voice Over Internet Protocol**

B. A system for providing access to websites via amateur radio

C. A system for informing amateurs in real time of the frequency of active DX stations

D. A technique for measuring signal strength of an amateur transmitter via the Internet

33: T8D01

Which of the following is an example of a digital communications method?

A. Packet

B. PSK31

C. MFSK

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

Subelement T9

34: T9A06

What type of antennas are the quad, Yagi, and dish?

- A. Non-resonant antennas
- B. Loop antennas
- ✓ **C. Directional antennas**
- D. Isotropic antennas

35: T9B01

Why is it important to have a low SWR in an antenna system that uses coaxial cable feed line?

- A. To reduce television interference
- ✓ **B. To allow the efficient transfer of power and reduce losses**
- C. To prolong antenna life
- D. All of these choices are correct

Results:

You scored 34 correct answers and 1 incorrect answers from a total of 35.

You would have passed the exam! Congratulations!

e)

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