Results for sample technician2014 test paper

Your answers are marked like this:

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

- x 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: T0A09

What kind of hazard is presented by a conventional 12-volt storage battery?

- A. It emits ozone which can be harmful to the atmosphere
- B. Shock hazard due to high voltage
- C. Explosive gas can collect if not properly vented
- **x**D. All of these choices are correct

2: T0B12

Which of the following is good practice when installing ground wires on a tower for lightning protection?

A. Put a loop in the ground connection to prevent water damage to the ground system B. Make sure that all bends in the ground wires are clean, right angle bends

C. Ensure that connections are short and direct

D. All of 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: T1A12

Which of the following is a permissible use of the Amateur Radio Service?

A. Broadcasting music and videos to friends

xB. Providing a way for amateur radio operators to earn additional income by using their stations to pass messages

C. Providing low-cost communications for start-up businesses

D. Allowing a person to conduct radio experiments and to communicate with other licensed hams around the world

5: T1B06

Which 23 cm frequency is authorized to a Technician Class licensee?

- A. 2315 MHz
- ✓ B. 1296 MHz
 - C. 3390 MHz
 - D. 146.52 MHz

6: T1C04

When are you allowed to operate your amateur station in a foreign country? • A. When the foreign country authorizes it

xB. 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: T1D07

What types of amateur stations can automatically retransmit the signals of other amateur stations?

- A. Auxiliary, beacon, or Earth stations
- B. Auxiliary, repeater, or space stations
 - C. Beacon, repeater, or space stations
 - D. Earth, repeater, or space stations

8: T1E12

When, under normal circumstances, may a Technician Class licensee be the control operator of a station operating in an exclusive Extra Class operator segment of the amateur bands?

A. At no time

- B. When operating a special event station
- C. As part of a multi-operator contest team
- D. When using a club station whose trustee is an Extra Class operator licensee

9: T1F10

Who is accountable should a repeater inadvertently retransmit communications that violate the FCC rules?

A. The control operator of the originating station

- B. The control operator of the repeater
- C. The owner of the repeater
- D. Both the originating station and the repeater owner

Subelement T2

10: T2A08

What is the meaning of the procedural signal CQ?

- A. Call on the quarter hour
- B. A new antenna is being tested (no station should answer)
- C. Only the called station should transmit
- D. Calling any station

11: T2B12

Under what circumstances should you consider communicating via simplex rather than a repeater?

A. When the stations can communicate directly without using a repeater

- B. Only when you have an endorsement for simplex operation on your license
- C. Only when third party traffic is not being passed
- D. Only if you have simplex modulation capability

12: T2C05

Which of the following describes the Radio Amateur Civil Emergency Service (RACES)?

A. A radio service using amateur frequencies for emergency management or civil defense communications

B. A radio service using amateur stations for emergency management or civil defense communications

xC. An emergency service using amateur operators certified by a civil defense organization as being enrolled in that organization

D. All of these choices are correct

Subelement T3

13: T3A11

Which part of the atmosphere enables the propagation of radio signals around the world?

- A. The stratosphere
- B. The troposphere
- C. The ionosphere
 - D. The magnetosphere

14: T3B02

What property of a radio wave is used to describe its polarization?

- A. The orientation of the electric field
- B. The orientation of the magnetic field
- xC. The ratio of the energy in the magnetic field to the energy in the electric field
 - D. The ratio of the velocity to the wavelength

15: T3C06

What mode is responsible for allowing over-the-horizon VHF and UHF communications to ranges of approximately 300 miles on a regular basis?

A. Tropospheric scatter

- B. D layer refraction
- C. F2 layer refraction
- D. Faraday rotation

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
- C. A fuse or circuit breaker regulates the power
- D. Power consumption is independent of load

17: T4B05

Which of the following would reduce ignition interference to a receiver?

- A. Change frequency slightly
- B. Decrease the squelch setting
- C. Turn on the noise blanker
 - D. Use the RIT control

Subelement T5

18: T5A12

What term describes the number of times per second that an alternating current reverses direction?

- A. Pulse rate
- B. Speed
- C. Wavelength
- D. Frequency

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: T5C04 What is the basic unit of inductance?

- A. The coulomb
- B. The farad

C. The henry

D. The ohm

21: T5D05

What is the resistance in a circuit for which the applied voltage is 12 volts and the current flow is 1.5 amperes?

A. 18 ohms

B. 0.125 ohms

🗸 C. 8 ohms

D. 13.5 ohms

Subelement T6

22: T6A02

What type of component is often used as an adjustable volume control?

- A. Fixed resistor
- B. Power resistor

C. Potentiometer

D. Transformer

23: T6B10

What are the three electrodes of a PNP or NPN transistor?

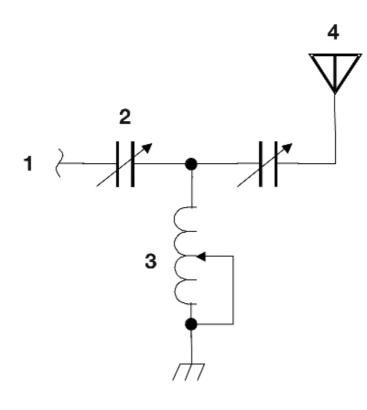
A. Emitter, base, and collector

- B. Source, gate, and drain
- C. Cathode, grid, and plate
- D. Cathode, drift cavity, and collector

24: T6C10

What is component 3 in figure T3?

- A. Connector
- B. Meter
- C. Variable capacitor
- D. Variable inductor





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: T7A07

What is meant by term PTT ?

- A. Pre-transmission tuning to reduce transmitter harmonic emission
- B. Precise tone transmissions used to limit repeater access to only certain signals
- C. A primary transformer tuner use to match antennas
- D. The push to talk function which switches between receive and transmit

27: T7B11

What is a symptom of RF feedback in a transmitter or transceiver?

- A. Excessive SWR at the antenna connection
- B. The transmitter will not stay on the desired frequency
- C. Reports of garbled, distorted, or unintelligible transmissions
 - D. Frequent blowing of power supply fuses

28: T7C02

Which of the following instruments can be used to determine if an antenna is resonant at the desired operating frequency?

A. A VTVM

B. An antenna analyzer

- C. A Q meter
- D. A frequency counter

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: T8A05

Which of the following types of emission has the narrowest bandwidth?

- A. FM voice
- B. SSB voice

🗸 C. CW

D. Slow-scan TV

31: T8B09

What causes spin fading when referring to satellite signals?

A. Circular polarized noise interference radiated from the sun

B. Rotation of the satellite and its antennas

- C. Doppler shift of the received signal
- D. Interfering signals within the satellite uplink band

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: 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: T9A08

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

A. 112	
A. 112 B. 50	
✓ C. 19	
D. 12	

35: T9B11

Which of the following types of feed line has the lowest loss at VHF and UHF?

- A. 50-ohm flexible coax
- B. Multi-conductor unbalanced cable

C. Air-insulated hard line

D. 75-ohm flexible coax

Results: You scored 30 correct answers and 5 incorrect answers from a total of 35.

You would have passed the exam! Congratulations!

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