

Results for sample general2015 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 G0

1: G0A02

Which of the following properties is important in estimating whether an RF signal exceeds the maximum permissible exposure (MPE)?

- A. Its duty cycle
- B. Its frequency
- C. Its power density

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

2: G0B04

Which of the following is a primary reason for not placing a gasoline-fueled generator inside an occupied area?

✓ **A. Danger of carbon monoxide poisoning**

- B. Danger of engine over torque
- C. Lack of oxygen for adequate combustion
- D. Lack of nitrogen for adequate combustion

Subelement G1

3: G1A12

Which of the following applies when the FCC rules designate the Amateur Service as a secondary user on a band?

A. Amateur stations must record the call sign of the primary service station before operating on a frequency assigned to that station

B. Amateur stations are allowed to use the band only during emergencies

✓ **C. Amateur stations are allowed to use the band only if they do not cause harmful interference to primary users**

D. Amateur stations may only operate during specific hours of the day, while primary users are permitted 24 hour use of the band

4: G1B10

What is the power limit for beacon stations?

- A. 10 watts PEP output
- B. 20 watts PEP output
- C. 100 watts PEP output
- D. 200 watts PEP output

5: G1C11

What is the maximum symbol rate permitted for RTTY or data emission transmissions on the 2-meter band?

- A. 56 kilobaud
- B. 19.6 kilobaud
- C. 1200 baud
- D. 300 baud

6: G1D05

Which of the following must a person have before they can be an administering VE for a Technician Class license examination?

- A. Notification to the FCC that you want to give an examination
- B. Receipt of a CSCE for General Class
- C. Possession of a properly obtained telegraphy license
- D. An FCC General Class or higher license and VEC accreditation

7: G1E04

Which of the following conditions require a licensed Amateur Radio operator to take specific steps to avoid harmful interference to other users or facilities?

- A. When operating within one mile of an FCC Monitoring Station
- B. When using a band where the Amateur Service is secondary
- C. When a station is transmitting spread spectrum emissions
- D. All of these choices are correct

Subelement G2

8: G2A04

Which mode is most commonly used for voice communications on the 17-meter and 12-meter bands?

- A. Upper sideband
- B. Lower sideband
- C. Vestigial sideband
- D. Double sideband

9: G2B10

When may the FCC restrict normal frequency operations of amateur stations

participating in RACES?

- A. When they declare a temporary state of communication emergency
- B. When they seize your equipment for use in disaster communications
- C. Only when all amateur stations are instructed to stop transmitting

D. When the President's War Emergency Powers have been invoked

10: G2C08

What prosign is sent to indicate the end of a formal message when using CW?

- A. SK
- B. BK

C. AR

- D. KN

11: G2D11

Which HF antenna would be the best to use for minimizing interference?

- A. A quarter-wave vertical antenna
- B. An isotropic antenna

C. A directional antenna

- D. An omnidirectional antenna

12: G2E04

What segment of the 20-meter band is most often used for digital transmissions?

- A. 14.000 - 14.050 MHz

B. 14.070 - 14.100 MHz

- C. 14.150 - 14.225 MHz

- D. 14.275 - 14.350 MHz

Subelement G3

13: G3A05

What is the solar flux index?

A. A measure of the highest frequency that is useful for ionospheric propagation between two points on the Earth

- B. A count of sunspots which is adjusted for solar emissions

- C. Another name for the American sunspot number

D. A measure of solar radiation at 10.7 centimeters wavelength

14: G3B07

What does LUF stand for?

A. The Lowest Usable Frequency for communications between two points

- B. The Longest Universal Function for communications between two points

- C. The Lowest Usable Frequency during a 24 hour period

- D. The Longest Universal Function during a 24 hour period

15: G3C07

What makes HF scatter signals often sound distorted?

- A. The ionospheric layer involved is unstable
- B. Ground waves are absorbing much of the signal
- C. The E-region is not present

D. Energy is scattered into the skip zone through several different radio wave paths

Subelement G4

16: G4A05

What is a reason to use Automatic Level Control (ALC) with an RF power amplifier?

- A. To balance the transmitter audio frequency response
- B. To reduce harmonic radiation

C. To reduce distortion due to excessive drive

- D. To increase overall efficiency

17: G4B02

Which of the following is an advantage of an oscilloscope versus a digital voltmeter?

- A. An oscilloscope uses less power
- B. Complex impedances can be easily measured
- C. Input impedance is much lower

D. Complex waveforms can be measured

18: G4C05

What might be the problem if you receive an RF burn when touching your equipment while transmitting on an HF band, assuming the equipment is connected to a ground rod?

A. Flat braid rather than round wire has been used for the ground wire

- B. Insulated wire has been used for the ground wire
- C. The ground rod is resonant

D. The ground wire has high impedance on that frequency

19: G4D09

What frequency range is occupied by a 3 kHz USB signal with the displayed carrier frequency set to 14.347 MHz?

- A. 14.347 to 14.647 MHz

B. 14.347 to 14.350 MHz

- C. 14.344 to 14.347 MHz
- D. 14.3455 to 14.3485 MHz

20: G4E02

What is the purpose of a corona ball on a HF mobile antenna?

- A. To narrow the operating bandwidth of the antenna
- B. To increase the "Q" of the antenna
- C. To reduce the chance of damage if the antenna should strike an object

D. To reduce high voltage discharge from the tip of the antenna

Subelement G5

21: G5A11

Which of the following describes one method of impedance matching between two AC circuits?

- A. Insert an LC network between the two circuits**
- B. Reduce the power output of the first circuit
- C. Increase the power output of the first circuit
- D. Insert a circulator between the two circuits

22: G5B09

What is the RMS voltage of a sine wave with a value of 17 volts peak?

- A. 8.5 volts
- B. 12 volts**
- C. 24 volts
- D. 34 volts

23: G5C07

What is the turns ratio of a transformer used to match an audio amplifier having 600 ohm output impedance to a speaker having 4 ohm impedance?

- A. 12.2 to 1**
- B. 24.4 to 1
- C. 150 to 1
- D. 300 to 1

Subelement G6

24: G6A12

What is the primary purpose of a screen grid in a vacuum tube?

- A. To reduce grid-to-plate capacitance**
- B. To increase efficiency
- C. To increase the control grid resistance
- D. To decrease plate resistance

25: G6B14

Which of these connector types is commonly used for audio signals in Amateur Radio stations?

- A. PL-259
- B. BNC
- C. RCA Phono**
- D. Type N

Subelement G7

26: G7A07

What is the output waveform of an unfiltered full-wave rectifier connected to a resistive load?

- A. A series of DC pulses at twice the frequency of the AC input**
- B. A series of DC pulses at the same frequency as the AC input
- C. A sine wave at half the frequency of the AC input
- D. A steady DC voltage

27: G7B08

How is the efficiency of an RF power amplifier determined?

- A. Divide the DC input power by the DC output power
- B. Divide the RF output power by the DC input power**
- C. Multiply the RF input power by the reciprocal of the RF output power
- D. Add the RF input power to the DC output power

28: G7C02

Which circuit is used to combine signals from the carrier oscillator and speech amplifier then send the result to the filter in some single sideband phone transmitters?

- A. Discriminator
- B. Detector
- C. IF amplifier
- D. Balanced modulator**

Subelement G8

29: G8A04

What emission is produced by a reactance modulator connected to a transmitter RF amplifier stage?

- A. Multiplex modulation
- B. Phase modulation**
- C. Amplitude modulation
- D. Pulse modulation

30: G8B01

What receiver stage combines a 14.250 MHz input signal with a 13.795 MHz oscillator signal to produce a 455 kHz intermediate frequency (IF) signal?

- A. Mixer**
- B. BFO
- C. VFO
- D. Discriminator

31: G8C09

What does the number 31 represent in "PSK31"?

- A. The approximate transmitted symbol rate**
- B. The version of the PSK protocol
- C. The year in which PSK31 was invented
- D. The number of characters that can be represented by PSK31

Subelement G9

32: G9A15

What is the effect of transmission line loss on SWR measured at the input to the line?

- A. The higher the transmission line loss, the more the SWR will read artificially low**
- B. The higher the transmission line loss, the more the SWR will read artificially high
- C. The higher the transmission line loss, the more accurate the SWR measurement will be
- D. Transmission line loss does not affect the SWR measurement

33: G9B05

How does antenna height affect the horizontal (azimuthal) radiation pattern of a horizontal dipole HF antenna?

- A. If the antenna is too high, the pattern becomes unpredictable
- B. Antenna height has no effect on the pattern
- C. If the antenna is less than 1/2 wavelength high, the azimuthal pattern is almost omnidirectional**
- D. If the antenna is less than 1/2 wavelength high, radiation off the ends of the wire is eliminated

34: G9C12

Which of the following is an advantage of using a gamma match for impedance matching of a Yagi antenna to 50 ohm coax feed line?

- A. It does not require that the elements be insulated from the boom**
- B. It does not require any inductors or capacitors
- C. It is useful for matching multiband antennas
- D. All of these choices are correct

35: G9D04

What is the primary purpose of antenna traps?

- A. To permit multiband operation**
- B. To notch spurious frequencies
- C. To provide balanced feed point impedance
- D. To prevent out of band operation

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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