Results for sample general2015 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 G0

1: G0A08

Which of the following steps must an amateur operator take to ensure compliance with RF safety regulations when transmitter power exceeds levels specified in FCC Part 97.13?

A. Post a copy of FCC Part 97.13 in the station
B. Post a copy of OET Bulletin 65 in the station
✔ **C. Perform a routine RF exposure evaluation**
D. All of these choices are correct

2: G0B01

Which wire or wires in a four-conductor connection should be attached to fuses or circuit breakers in a device operated from a 240 VAC single phase source?

✔ **A. Only the two wires carrying voltage**
B. Only the neutral wire
C. Only the ground wire
D. All wires

Subelement G1

3: G1A13

What is the appropriate action if, when operating on either the 30-meter or 60-meter bands, a station in the primary service interferes with your contact?

A. Notify the FCCs regional Engineer in Charge of the interference
B. Increase your transmitter's power to overcome the interference
C. Attempt to contact the station and request that it stop the interference
✔ **D. Move to a clear frequency or stop transmitting**

4: G1B07

What are the restrictions on the use of abbreviations or procedural signals in the Amateur Service?

A. Only "Q" signals are permitted

✔ **B. They may be used if they do not obscure the meaning of a message**

C. They are not permitted

D. Only "10 codes" are permitted

5: G1C05

Which of the following is a limitation on transmitter power on the 28 MHz band for a General Class control operator?

A. 100 watts PEP output

B. 1000 watts PEP output

✔ **C. 1500 watts PEP output**

D. 2000 watts PEP output

6: G1D08

Which of the following criteria must be met for a non-U.S. citizen to be an accredited Volunteer Examiner?

A. The person must be a resident of the U.S. for a minimum of 5 years

✔ **B. The person must hold an FCC granted Amateur Radio license of General Class or above**

C. The personâ€™s home citizenship must be in ITU region 2

D. None of these choices is correct; a non-U.S. citizen cannot be a Volunteer Examiner

7: G1E09

What language must be used when identifying your station if you are using a language other than English in making a contact using phone emission?

xA. The language being used for the contactA. The entire band

B. Any language recognized by the United NationsB. The portion between 28.1 MHz and 28.2 MHz

✔ **C. English onlyC. The portion between 28.3 MHz and 28.5 MHz**

D. English, Spanish, French, or GermanD. The portion above 29.6 MHz

Subelement G2

8: G2A07

Which of the following statements is true of the single sideband voice mode?

A. Only one sideband and the carrier are transmitted; the other sideband is suppressed

✔ **B. Only one sideband is transmitted; the other sideband and carrier are suppressed**

C. SSB is the only voice mode that is authorized on the 20-meter, 15-meter, and 10-meter amateur bands

D. SSB is the only voice mode that is authorized on the 160-meter, 75-meter and 40-meter amateur bands

9: G2B09

Who may be the control operator of an amateur station transmitting in RACES to assist relief operations during a disaster?

✔ **A. Only a person holding an FCC issued amateur operator license**

B. Only a RACES net control operator

C. A person holding an FCC issued amateur operator license or an appropriate government official

xD. Any control operator when normal communication systems are operational

10: G2C09

What does the Q signal "QSL" mean?

A. Send slower

B. We have already confirmed by card

✔ **C. I acknowledge receipt**

D. We have worked before

11: G2D04

Which of the following describes an azimuthal projection map?

A. A map that shows accurate land masses

✔ **B. A map that shows true bearings and distances from a particular location**

C. A map that shows the angle at which an amateur satellite crosses the equator

xD. A map that shows the number of degrees longitude that an amateur satellite appears to move westward at the equator with each orbit

12: G2E09

How do you join a contact between two stations using the PACTOR protocol?

A. Send broadcast packets containing your call sign while in MONITOR mode

B. Transmit a steady carrier until the PACTOR protocol times out and disconnects

✔ **C. Joining an existing contact is not possible, PACTOR connections are limited to two stations**

D. Send a NAK response continuously so that the sending station has to pause

Subelement G3

13: G3A12

What does the K-index indicate?

A. The relative position of sunspots on the surface of the Sun

✔ **B. The short term stability of the Earthâ€™s magnetic field**

C. The stability of the Sun's magnetic field

D. The solar radio flux at Boulder, Colorado

14: G3B11

What happens to HF propagation when the LUF exceeds the MUF?

✔ **A. No HF radio frequency will support ordinary sky-wave communications over the path**

B. HF communications over the path are enhanced
C. Double hop propagation along the path is more common
D. Propagation over the path on all HF frequencies is enhanced

15: G3C08
Why are HF scatter signals in the skip zone usually weak?
✔ **A. Only a small part of the signal energy is scattered into the skip zone**
B. Signals are scattered from the magnetosphere which is not a good reflector
C. Propagation is through ground waves which absorb most of the signal energy
xD. Propagations is through ducts in F region which absorb most of the energy

Subelement G4

16: G4A13
What is one reason to use the attenuator function that is present on many HF transceivers?
✔ **A. To reduce signal overload due to strong incoming signals**
B. To reduce the transmitter power when driving a linear amplifier
C. To reduce power consumption when operating from batteries
D. To slow down received CW signals for better copy

17: G4B14
What is an instance in which the use of an instrument with analog readout may be preferred over an instrument with a digital readout?
A. When testing logic circuits
B. When high precision is desired
C. When measuring the frequency of an oscillator
✔ **D. When adjusting tuned circuits**

18: G4C03
What sound is heard from an audio device or telephone if there is interference from a nearby single sideband phone transmitter?
A. A steady hum whenever the transmitter is on the air
B. On-and-off humming or clicking
✔ **C. Distorted speech**
D. Clearly audible speech

19: G4D03
Which of the following can be the result of an incorrectly adjusted speech processor?
A. Distorted speech
B. Splatter
xC. Excessive background pickup
✔ **D. All of these choices are correct**

20: G4E07

Which of the following may cause interference to be heard in the receiver of an HF radio installed in a recent model vehicle?

A. The battery charging system
B. The fuel delivery system
C. The vehicle control computer
✔ **D. All of these choices are correct**

Subelement G5

21: G5A01

What is impedance?

A. The electric charge stored by a capacitor
B. The inverse of resistance
✔ **C. The opposition to the flow of current in an AC circuit**
D. The force of repulsion between two similar electric fields

22: G5B03

How many watts of electrical power are used if 400 VDC is supplied to an 800 ohm load?

A. 0.5 watts
✔ **B. 200 watts**
C. 400 watts
D. 3200 watts

23: G5C10

What is the inductance of three 10 millihenry inductors connected in parallel?

A. 0.30 henrys
B. 3.3 henrys
✔ **C. 3.3 millihenrys**
D. 30 millihenrys

Subelement G6

24: G6A11

Which of the following solid state devices is most like a vacuum tube in its general operating characteristics?

A. A bipolar transistor
✔ **B. A field effect transistor**
C. A tunnel diode
D. A varistor

25: G6B08

How is an LED biased when emitting light?

A. Beyond cutoff
B. At the Zener voltage
C. Reverse Biased
✔ **D. Forward Biased**

Subelement G7

26: G7A02
Which of the following components are used in a power supply filter network?
A. Diodes
B. Transformers and transducers
C. Quartz crystals
✔ **D. Capacitors and inductors**

27: G7B04
Which of the following describes the function of a two input NOR gate?
A. Output is high when either or both inputs are low
B. Output is high only when both inputs are high
✔ **C. Output is low when either or both inputs are high**
D. Output is low only when both inputs are high

28: G7C08
What type of circuit is used in many FM receivers to convert signals coming from the IF amplifier to audio?
A. Product detector
B. Phase inverter
C. Mixer
✔ **D. Discriminator**

Subelement G8

29: G8A10
What is meant by the term flat-topping when referring to a single sideband phone transmission?
A. Signal distortion caused by insufficient collector current
B. The transmitter's automatic level control (ALC) is properly adjusted
✔ **C. Signal distortion caused by excessive drive**
D. The transmitter's carrier is properly suppressed

30: G8B04
What is the stage in a VHF FM transmitter that generates a harmonic of a lower frequency signal to reach the desired operating frequency?
A. Mixer

B. Reactance modulator
C. Pre-emphasis network
✔ **D. Multiplier**

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: G9A09
What standing wave ratio will result when connecting a 50 ohm feed line to a non-reactive load having 200 ohm impedance?
✔ **A. 4:1**
B. 1:4
C. 2:1
D. 1:2

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
xB. 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: G9C02
What is the approximate length of the driven element of a Yagi antenna?
A. 1/4 wavelength
✔ **B. 1/2 wavelength**
C. 3/4 wavelength
D. 1 wavelength

35: G9D06
Which of the following is an advantage of a log periodic antenna?
✔ **A. Wide bandwidth**
B. Higher gain per element than a Yagi antenna
C. Harmonic suppression
D. Polarization diversity

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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