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: G0A09
What type of instrument can be used to accurately measure an RF field?
A. A receiver with an S meter
✔ **B. A calibrated field strength meter with a calibrated antenna**
C. An SWR meter with a peak-reading function
D. An oscilloscope with a high-stability crystal marker generator

2: G0B02
What is the minimum wire size that may be safely used for a circuit that draws up to 20 amperes of continuous current?
A. AWG number 20
xB. AWG number 16
✔ **C. AWG number 12**
D. AWG number 8

Subelement G1

3: G1A10
Which of the following frequencies is available to a control operator holding a General Class license?
A. 28.020 MHz
xB. 28.350 MHz
C. 28.550 MHz
✔ **D. All of these choices are correct**

4: G1B08
When choosing a transmitting frequency, what should you do to comply with good

amateur practice?

A. Insure that the frequency and mode selected are within your license class privileges
B. Follow generally accepted band plans agreed to by the Amateur Radio community
C. Monitor the frequency before transmitting
✔ **D. All of these choices are correct**

5: G1C10

What is the maximum symbol rate permitted for RTTY or data emission transmissions on the 10-meter band?

A. 56 kilobaud
B. 19.6 kilobaud
✔ **C. 1200 baud**
D. 300 baud

6: G1D11

If a person has an expired FCC issued amateur radio license of General Class or higher, what is required before they can receive a new license?

A. They must have a letter from the FCC showing they once held an amateur or commercial license
B. There are no requirements other than being able to show a copy of the expired license
C. The applicant must be able to produce a copy of a page from a call book published in the USA showing his or her name and address
✔ **D. The applicant must pass the current element 2 exam**

7: G1E06

Which of the following applies in the event of interference between a coordinated repeater and an uncoordinated repeater?

✔ **A. The licensee of the uncoordinated repeater has primary responsibility to resolve the interference**
xB. The licensee of the coordinated repeater has primary responsibility to resolve the interference
C. Both repeater licensees share equal responsibility to resolve the interference
D. The frequency coordinator bears primary responsibility to resolve the interference

Subelement G2

8: G2A01

Which sideband is most commonly used for voice communications on frequencies of 14 MHz or higher?

✔ **A. Upper sideband**
B. Lower sideband
C. Vestigial sideband
D. Double sideband

9: G2B05

What is the customary minimum frequency separation between SSB signals under

normal conditions?

A. Between 150 and 500 Hz

✔ **B. Approximately 3 kHz**

C. Approximately 6 kHz

D. Approximately 10 kHz

10: G2C02

What should you do if a CW station sends "QRS"?

✔ **A. Send slower**

B. Change frequency

C. Increase your power

D. Repeat everything twice

11: G2D02

Which of the following are objectives of the Amateur Auxiliary?

A. To conduct efficient and orderly amateur licensing examinations

✔ **B. To encourage self-regulation and compliance with the rules by radio amateur operators**

C. To coordinate repeaters for efficient and orderly spectrum usage

xD. To provide emergency and public safety communications

12: G2E07

What segment of the 80-meter band is most commonly used for digital transmissions?

✔ **A. 3570 â€“ 3600 kHz**

B. 3500 â€“ 3525 kHz

C. 3700 â€“ 3750 kHz

D. 3775 â€“ 3825 kHz

Subelement G3

13: G3A14

How are radio communications usually affected by the charged particles that reach the Earth from solar coronal holes?

A. HF communications are improved

✔ **B. HF communications are disturbed**

C. VHF/UHF ducting is improved

D. VHF/UHF ducting is disturbed

14: G3B08

What does MUF stand for?

A. The Minimum Usable Frequency for communications between two points

✔ **B. The Maximum Usable Frequency for communications between two points**

C. The Minimum Usable Frequency during a 24 hour period

D. The Maximum Usable Frequency during a 24 hour period

15: G3C01

Which ionospheric layer is closest to the surface of the Earth?

✔ **A. The D layer**
B. The E layer
C. The F1 layer
D. The F2 layer

Subelement G4

16: G4A03
What is normally meant by operating a transceiver in "split" mode?
A. The radio is operating at half power
B. The transceiver is operating from an external power source
✔ **C. The transceiver is set to different transmit and receive frequencies**
D. The transmitter is emitting an SSB signal, as opposed to DSB operation

17: G4B09
Which of the following can be determined with a field strength meter?
A. The radiation resistance of an antenna
✔ **B. The radiation pattern of an antenna**
C. The presence and amount of phase distortion of a transmitter
D. The presence and amount of amplitude distortion of a transmitter

18: G4C09
How can a ground loop be avoided?
A. Connect all ground conductors in series
B. Connect the AC neutral conductor to the ground wire
C. Avoid using lock washers and star washers when making ground connections
✔ **D. Connect all ground conductors to a single point**

19: G4D08
What frequency range is occupied by a 3 kHz LSB signal when the displayed carrier frequency is set to 7.178 MHz?
A. 7.178 to 7.181 MHz
B. 7.178 to 7.184 MHz
✔ **C. 7.175 to 7.178 MHz**
D. 7.1765 to 7.1795 MHz

20: G4E08
What is the name of the process by which sunlight is changed directly into electricity?
✔ **A. Photovoltaic conversion**
B. Photon emission
C. Photosynthesis
D. Photon decomposition

Subelement G5

21: G5A09
What unit is used to measure reactance?
A. Farad
✔ **B. Ohm**
C. Ampere
D. Siemens

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: G5C14
Which of the following components should be added to an inductor to increase the inductance?
A. A capacitor in series
B. A resistor in parallel
C. An inductor in parallel
✔ **D. An inductor in series**

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: G6B18
What is a type SMA connector?
A. A large bayonet connector usable at power levels in excess of 1 KW
✔ **B. A small threaded connector suitable for signals up to several GHz**
C. A connector designed for serial multiple access signals
D. A type of push-on connector intended for high voltage applications

Subelement G7

26: G7A05
What portion of the AC cycle is converted to DC by a half-wave rectifier?
A. 90 degrees
✔ **B. 180 degrees**
C. 270 degrees
D. 360 degrees

27: G7B03
Which of the following describes the function of a two input AND 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: G7C09
Which of the following is needed for a Digital Signal Processor IF filter?
A. An analog to digital converter
B. A digital to analog converter
C. A digital processor chip
✔ **D. All of the these choices are correct**

Subelement G8

29: G8A08
Which of the following is an effect of overmodulation?
A. Insufficient audio
B. Insufficient bandwidth
C. Frequency drift
✔ **D. Excessive bandwidth**

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: G8C11
How are the two separate frequencies of a Frequency Shift Keyed (FSK) signal identified?
A. Dot and Dash

B. On and Off
C. High and Low
✔ **D. Mark and Space**

Subelement G9

32: G9A01
Which of the following factors determine the characteristic impedance of a parallel conductor antenna feed line?
✔ **A. The distance between the centers of the conductors and the radius of the conductors**
B. The distance between the centers of the conductors and the length of the line
C. The radius of the conductors and the frequency of the signal
D. The frequency of the signal and the length of the line

33: G9B12
What is the approximate length for a 1/4 wave vertical antenna cut for 28.5 MHz?
✔ **A. 8 feet**
B. 11 feet
C. 16 feet
D. 21 feet

34: G9C13
Approximately how long is each side of the driven element of a quad antenna?
✔ **A. 1/4 wavelength**
B. 1/2 wavelength
C. 3/4 wavelength
D. 1 wavelength

35: G9D01
What does the term NVIS mean as related to antennas?
A. Nearly Vertical Inductance System
B. Non-Varying Indicated SWR
C. Non-Varying Impedance Smoothing
✔ **D. Near Vertical Incidence sky-wave**

Results:
You scored 31 correct answers and 4 incorrect answers from a total of 35.

You would have passed the exam! Congratulations!

e:

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