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: G0A07
What effect does transmitter duty cycle have when evaluating RF exposure?
✔ **A. A lower transmitter duty cycle permits greater short-term exposure levels**
B. A higher transmitter duty cycle permits greater short-term exposure levels
C. Low duty cycle transmitters are exempt from RF exposure evaluation requirements
D. High duty cycle transmitters are exempt from RF exposure requirements

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: G1A09
Which of the following frequencies is within the General Class portion of the 15-meter band?
A. 14250 kHz
B. 18155 kHz
✔ **C. 21300 kHz**
D. 24900 kHz

4: G1B05
When may music be transmitted by an amateur station?
A. At any time, as long as it produces no spurious emissions
B. When it is unintentionally transmitted from the background at the transmitter
C. When it is transmitted on frequencies above 1215 MHz
✔ **D. When it is an incidental part of a manned space craft retransmission**

5: G1C04
Which of the following limitations apply to transmitter power on every amateur band?
✔ **A. Only the minimum power necessary to carry out the desired communications should be used**

B. Power must be limited to 200 watts when transmitting between 14.100 MHz and 14.150 MHz
C. Power should be limited as necessary to avoid interference to another radio service on the frequency
D. Effective radiated power cannot exceed 1500 watts

6: G1D01
Who may receive credit for the elements represented by an expired amateur radio license?
✔ **A. Any person who can demonstrate that they once held an FCC issued General, Advanced, or Amateur Extra class license that was not revoked by the FCC**
B. Anyone who held an FCC issued amateur radio license that has been expired for not less than 5 years and not more than 15 years
xC. Any person who previously held an amateur license issued by another country, but only if that country has a current reciprocal licensing agreement with the FCC
D. Only persons who once held an FCC issued Novice, Technician, or Technician Plus license

7: G1E07
With which foreign countries is third party traffic prohibited, except for messages directly involving emergencies or disaster relief communications?
A. Countries in ITU Region 2
B. Countries in ITU Region 1
✔ **C. Every foreign country, unless there is a third party agreement in effect with that country**
D. Any country which is not a member of the International Amateur Radio Union (IARU)

Subelement G2

8: G2A02
Which of the following modes is most commonly used for voice communications on the 160-meter, 75-meter, and 40-meter bands?
A. Upper sideband
✔ **B. Lower sideband**
C. Vestigial sideband
D. Double sideband

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: G2D10
What is QRP operation?
A. Remote piloted model control
✔ **B. Low power transmit operation**

C. Transmission using Quick Response Protocol
D. Traffic relay procedure net operation

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

Subelement G3

13: G3A06
What is a geomagnetic storm?
A. A sudden drop in the solar flux index
B. A thunderstorm which affects radio propagation
C. Ripples in the ionosphere
✔ **D. A temporary disturbance in the Earth's magnetosphere**

14: G3B03
Which of the following applies when selecting a frequency for lowest attenuation when transmitting on HF?
✔ **A. Select a frequency just below the MUF**
B. Select a frequency just above the LUF
xC. Select a frequency just below the critical frequency
D. Select a frequency just above the critical frequency

15: G3C13
What is Near Vertical Incidence Sky-wave (NVIS) propagation?
A. Propagation near the MUF
✔ **B. Short distance MF or HF propagation using high elevation angles**
C. Long path HF propagation at sunrise and sunset
D. Double hop propagation near the LUF

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: G4B03
Which of the following is the best instrument to use when checking the keying waveform of a CW transmitter?
✔ **A. An oscilloscope**
B. A field strength meter
C. A sidetone monitor
D. A wavemeter

18: G4C07
What is one good way to avoid unwanted effects of stray RF energy in an amateur

station?

✔ **A. Connect all equipment grounds together**

B. Install an RF filter in series with the ground wire

C. Use a ground loop for best conductivity

D. Install a few ferrite beads on the ground wire where it connects to your station

19: G4D04

What does an S meter measure?

A. Conductance

B. Impedance

✔ **C. Received signal strength**

D. Transmitter power output

20: G4E11

Which of the following is a disadvantage of using wind as the primary source of power for an emergency station?

A. The conversion efficiency from mechanical energy to electrical energy is less than 2 percent

B. The voltage and current ratings of such systems are not compatible with amateur equipment

✔ **C. A large energy storage system is needed to supply power when the wind is not blowing**

D. All of these choices are correct

Subelement G5

21: G5A05

How does an inductor react to AC?

A. As the frequency of the applied AC increases, the reactance decreases

B. As the amplitude of the applied AC increases, the reactance increases

C. As the amplitude of the applied AC increases, the reactance decreases

✔ **D. As the frequency of the applied AC increases, the reactance increases**

22: G5B10

What percentage of power loss would result from a transmission line loss of 1 dB?

A. 10.9 percent

B. 12.2 percent

✔ **C. 20.5 percent**

D. 25.9 percent

23: G5C17

What is the value in nanofarads (nF) of a 22,000 pF capacitor?

A. 0.22 nF

B. 2.2 nF

✔ **C. 22 nF**

D. 220 nF

Subelement G6

24: G6A16

What will happen to the resistance if the temperature of a resistor is increased?

A. It will change depending on the resistorâ€™s reactance coefficient

B. It will stay the same

✔ **C. It will change depending on the resistor's temperature coefficient**

D. It will become time dependent

25: G6B06
What kind of device is an integrated circuit operational amplifier?
A. Digital
xB. MMIC
C. Programmable Logic
✔ **D. Analog**

Subelement G7

26: G7A10
Which symbol in figure G7-1 represents a Zener diode?
A. Symbol 4
B. Symbol 1
C. Symbol 11
✔ **D. Symbol 5**

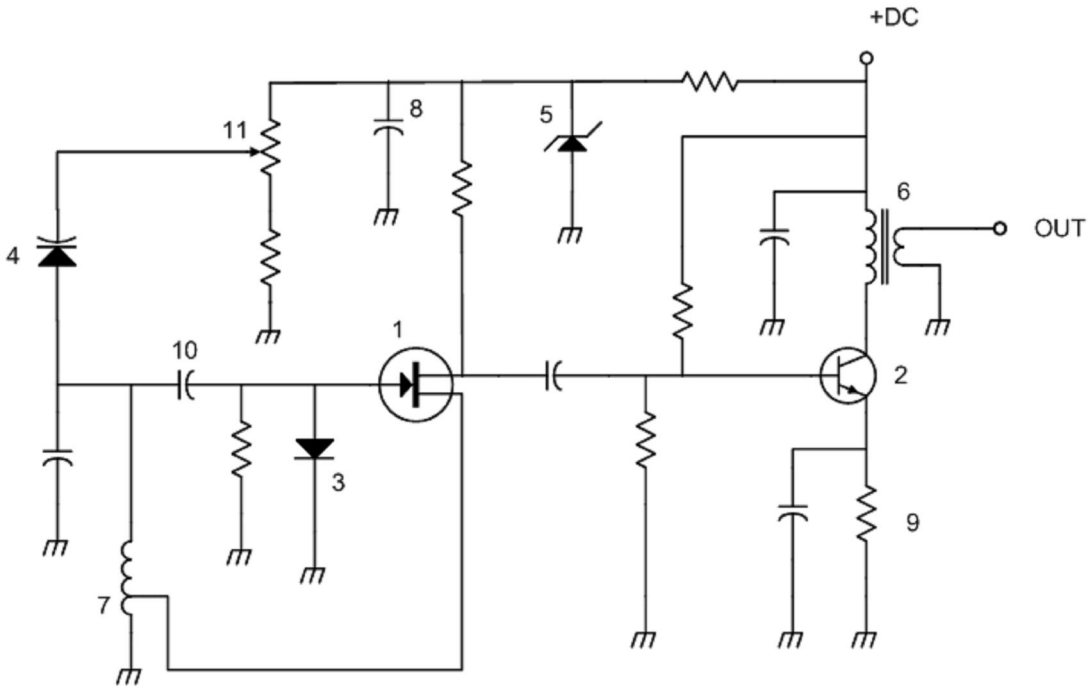

Figure G7-1

27: G7B07
What are the basic components of virtually all sine wave oscillators?
A. An amplifier and a divider
B. A frequency multiplier and a mixer
C. A circulator and a filter operating in a feed-forward loop
✔ **D. A filter and an amplifier operating in a feedback loop**

28: G7C07
What is the simplest combination of stages that implement a superheterodyne receiver?

A. RF amplifier, detector, audio amplifier
B. RF amplifier, mixer, IF discriminator
✔ **C. HF oscillator, mixer, detector**
D. HF oscillator, prescaler, audio amplifier

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: G8B06
What is the total bandwidth of an FM phone transmission having 5 kHz deviation and 3 kHz modulating frequency?
✘A. 3 kHz
B. 5 kHz
C. 8 kHz
✔ **D. 16 kHz**

31: G8C10
How does forward error correction (FEC) allow the receiver to correct errors in received data packets?
A. By controlling transmitter output power for optimum signal strength
B. By using the varicode character set
✔ **C. By transmitting redundant information with the data**
✘D. By using a parity bit with each character

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: 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: G9C18
What happens when the feed point of a quad antenna of any shape is moved from the midpoint of the top or bottom to the midpoint of either side?

✔ **A. The polarization of the radiated signal changes from horizontal to vertical**
B. The polarization of the radiated signal changes from vertical to horizontal
C. There is no change in polarization
D. The radiated signal becomes circularly polarized

35: G9D08
Why is a Beverage antenna not used for transmitting?
A. Its impedance is too low for effective matching
✔ **B. It has high losses compared to other types of antennas**
C. It has poor directivity
D. All of these choices are correct

Results:
You scored 28 correct answers and 7 incorrect answers from a total of 35.

You would have passed the exam! Congratulations!

e:

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