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: G0A11
What precaution should you take if you install an indoor transmitting antenna?
A. Locate the antenna close to your operating position to minimize feed line radiation
B. Position the antenna along the edge of a wall to reduce parasitic radiation
✔ **C. Make sure that MPE limits are not exceeded in occupied areas**
D. Make sure the antenna is properly shielded

2: G0B13
What must you do when powering your house from an emergency generator?
✔ **A. Disconnect the incoming utility power feed**
B. Insure that the generator is not grounded
C. Insure that all lightning grounds are disconnected
D. All of these choices are correct

Subelement G1

3: G1A07
Which of the following frequencies is within the General Class portion of the 20-meter phone band?
A. 14005 kHz
B. 14105 kHz
✔ **C. 14305 kHz**
D. 14405 kHz

4: G1B11
How does the FCC require an amateur station to be operated in all respects not

specifically covered by the Part 97 rules?

A. In conformance with the rules of the IARU
B. In conformance with Amateur Radio custom
✔ **C. In conformance with good engineering and good amateur practice**
D. All of these choices are correct

5: G1C08

What is the maximum symbol rate permitted for RTTY or data emission transmitted at frequencies below 28 MHz?

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: G2A08

Which of the following is a recommended way to break into a contact when using phone?

A. Say "QRZ" several times followed by your call sign
✔ **B. Say your call sign during a break between transmissions by the other stations**
C. Say "Break Break Break" and wait for a response
D. Say "CQ" followed by the call sign of either station

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 Presidentâ€™s War Emergency Powers have been invoked**

10: G2C06

What does the term "zero beat" mean in CW operation?

A. Matching the speed of the transmitting station
B. Operating split to avoid interference on frequency
C. Sending without error

✔ **D. Matching your transmit frequency to the frequency of a received signal**

11: G2D07

Which of the following is required by the FCC rules when operating in the 60-meter band?

✔ **A. If you are using other than a dipole antenna, you must keep a record of the gain of your antenna**

B. You must keep a record of the date, time, frequency, power level and stations worked
C. You must keep a record of all third party traffic
D. You must keep a record of the manufacturer of your equipment and the antenna used

12: G2E02

How can a PACTOR modem or controller be used to determine if the channel is in use by other PACTOR stations?

A. Unplug the data connector temporarily and see if the channel-busy indication is turned off

✔ **B. Put the modem or controller in a mode which allows monitoring communications without a connection**

xC. Transmit UI packets several times and wait to see if there is a response from another PACTOR station

D. Send the message: "Is this frequency in use?"

Subelement G3

13: G3A10

What causes HF propagation conditions to vary periodically in a 28 day cycle?

A. Long term oscillations in the upper atmosphere
B. Cyclic variation in the Earthâ€™s radiation belts

✔ **C. The Sunâ€™s rotation on its axis**

D. The position of the Moon in its orbit

14: G3B12

What factor or factors affect the MUF?

A. Path distance and location
B. Time of day and season
C. Solar radiation and ionospheric disturbances

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

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: G4A10

What is the purpose of an electronic keyer?

A. Automatic transmit/receive switching
✔ **B. Automatic generation of strings of dots and dashes for CW operation**
C. VOX operation
D. Computer interface for PSK and RTTY operation

17: G4B15

What type of transmitter performance does a two-tone test analyze?

✔ **A. Linearity**
xB. Percentage of suppression of carrier and undesired sideband for SSB
C. Percentage of frequency modulation
D. Percentage of carrier phase shift

18: G4C11

Which of the following is a function of a digital signal processor?

A. To provide adequate grounding
✔ **B. To remove noise from received signals**
C. To increase antenna gain
D. To increase antenna bandwidth

19: G4D07

How much must the power output of a transmitter be raised to change the S meter reading on a distant receiver from S8 to S9?

A. Approximately 1.5 times
B. Approximately 2 times
✔ **C. Approximately 4 times**
D. Approximately 8 times

20: G4E06

What is one disadvantage of using a shortened mobile antenna as opposed to a full size antenna?

A. Short antennas are more likely to cause distortion of transmitted signals
B. Short antennas can only receive circularly polarized signals
✔ **C. Operating bandwidth may be very limited**

D. Harmonic radiation may increase

Subelement G5

21: G5A07

What happens when the impedance of an electrical load is equal to the output impedance of a power source, assuming both impedances are resistive?

A. The source delivers minimum power to the load
B. The electrical load is shorted
C. No current can flow through the circuit
✔ **D. The source can deliver maximum power to the load**

22: G5B01

What dB change represents a two-times increase or decrease in power?

A. Approximately 2 dB
✔ **B. Approximately 3 dB**
C. Approximately 6 dB
D. Approximately 12 dB

23: G5C09

What is the capacitance of three 100 microfarad capacitors connected in series?

A. 0.30 microfarads
B. 0.33 microfarads
✔ **C. 33.3 microfarads**
D. 300 microfarads

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: G6B09

Which of the following is a characteristic of a liquid crystal display?

✔ **A. It requires ambient or back lighting**
B. It offers a wide dynamic range
C. It has a wide viewing angle
x D. All of these choices are correct

Subelement G7

26: G7A06

What portion of the AC cycle is converted to DC by a full-wave rectifier?

A. 90 degrees
B. 180 degrees
C. 270 degrees
✔ **D. 360 degrees**

27: G7B13

What is the reason for neutralizing the final amplifier stage of a transmitter?

A. To limit the modulation index
✔ **B. To eliminate self-oscillations**
C. To cut off the final amplifier during standby periods
D. To keep the carrier on frequency

28: G7C06

What should be the impedance of a low-pass filter as compared to the impedance of the transmission line into which it is inserted?

A. Substantially higher
✔ **B. About the same**
C. Substantially lower
D. Twice the transmission line impedance

Subelement G8

29: G8A02

What is the name of the process that changes the phase angle of an RF wave to convey information?

A. Phase convolution
✔ **B. Phase modulation**
xC. Angle convolution
D. Radian inversion

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: G8C01

Which of the following digital modes is designed to operate at extremely low signal

strength on the HF bands?

A. FSK441 and Hellschreiber

✔ **B. JT9 and JT65**

C. Clover

D. RTTY

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: G9B08

How does the feed point impedance of a 1/2 wave dipole change as the feed point is moved from the center toward the ends?

✔ **A. It steadily increases**

B. It steadily decreases

C. It peaks at about 1/8 wavelength from the end

D. It is unaffected by the location of the feed point

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: G9D07

Which of the following describes a log periodic antenna?

✔ **A. Length and spacing of the elements increase logarithmically from one end of the boom to the other**

B. Impedance varies periodically as a function of frequency

C. Gain varies logarithmically as a function of frequency

D. SWR varies periodically as a function of boom length

Results:

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

You would have passed the exam! Congratulations!

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