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: G0B12

What is the purpose of a power supply interlock?

A. To prevent unauthorized changes to the circuit that would void the manufacturerâ€™s warranty

B. To shut down the unit if it becomes too hot

✔ **C. To ensure that dangerous voltages are removed if the cabinet is opened**

D. To shut off the power supply if too much voltage is produced

Subelement G1

3: G1A04

Which of the following amateur bands is restricted to communication on only specific channels, rather than frequency ranges?

A. 11 meters

B. 12 meters

C. 30 meters

✔ **D. 60 meters**

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: G1C11

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

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

6: G1D03

On which of the following band segments may you operate if you are a Technician Class operator and have a CSCE for General Class privileges?

A. Only the Technician band segments until your upgrade is posted in the FCC database
B. Only on the Technician band segments until your license arrives in the mail
✔ **C. On any General or Technician Class band segment**
D. On any General or Technician Class band segment except 30-meters and 60-meters

7: G1E02

When may a 10-meter repeater retransmit the 2-meter signal from a station having a Technician Class control operator?

A. Under no circumstances
B. Only if the station on 10-meters is operating under a Special Temporary Authorization allowing such retransmission
C. Only during an FCC declared general state of communications emergency
✔ **D. Only if the 10-meter repeater control operator holds at least a General Class license**

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: G2B08

What is the "DX window" in a voluntary band plan?

✔ **A. A portion of the band that should not be used for contacts between stations**

within the 48 contiguous United States

B. An FCC rule that prohibits contacts between stations within the United States and possessions in that portion of the band

C. An FCC rule that allows only digital contacts in that portion of the band

D. A portion of the band that has been voluntarily set aside for digital contacts only

10: G2C04

What does the Q signal "QRL?" mean?

A. "Will you keep the frequency clear?"

B. "Are you operating full break-in" or "Can you operate full break-in?"

C. "Are you listening only for a specific station?"

✔ **D. "Are you busy?", or "Is this frequency in use?"**

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

D. To provide emergency and public safety communications

12: G2E11

What is indicated on a waterfall display by one or more vertical lines adjacent to a PSK31 signal?

A. Long Path propagation

B. Backscatter propagation

C. Insufficient modulation

✔ **D. Overmodulation**

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: 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: G3C12

Which ionospheric layer is the most absorbent of long skip signals during daylight hours on frequencies below 10 MHz?

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

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: G4B07

What signals are used to conduct a two-tone test?

A. Two audio signals of the same frequency shifted 90 degrees
✔ **B. Two non-harmonically related audio signals**
C. Two swept frequency tones
D. Two audio frequency range square wave signals of equal amplitude

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: 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: G4E01

What is the purpose of a capacitance hat on a mobile antenna?

A. To increase the power handling capacity of a whip antenna
B. To allow automatic band changing
✔ **C. To electrically lengthen a physically short antenna**
D. To allow remote tuning

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: G5B02

How does the total current relate to the individual currents in each branch of a purely resistive parallel circuit?

A. It equals the average of each branch current
B. It decreases as more parallel branches are added to the circuit
✔ **C. It equals the sum of the currents through each branch**
D. It is the sum of the reciprocal of each individual voltage drop

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: 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: G7A03
What is the peak-inverse-voltage across the rectifiers in a full-wave bridge power supply?
A. One-quarter the normal output voltage of the power supply
B. Half the normal output voltage of the power supply
C. Double the normal peak output voltage of the power supply
✔ **D. Equal to the normal peak output voltage of the power supply**

27: G7B11
For which of the following modes is a Class C power stage appropriate for amplifying a modulated signal?
A. SSB
✔ **B. CW**
C. AM
D. All of these choices are correct

28: G7C11
What is meant by the term "software defined radio" (SDR)?
✔ **A. A radio in which most major signal processing functions are performed by software**
B. A radio that provides computer interface for automatic logging of band and frequency
C. A radio that uses crystal filters designed using software
D. A computer model that can simulate performance of a radio to aid in the design process

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: G8B02
If a receiver mixes a 13.800 MHz VFO with a 14.255 MHz received signal to produce a 455 kHz intermediate frequency (IF) signal, what type of interference will a 13.345 MHz signal produce in the receiver?
A. Quadrature noise
✔ **B. Image response**

C. Mixer interference
D. Intermediate interference

31: G8C05
In the PACTOR protocol, what is meant by an NAK response to a transmitted packet?
✔ **A. The receiver is requesting the packet be retransmitted**
B. The receiver is reporting the packet was received without error
C. The receiver is busy decoding the packet
xD. The entire file has been received correctly

Subelement G9

32: G9A03
What is the characteristic impedance of flat ribbon TV type twinlead?
A. 50 ohms
B. 75 ohms
C. 100 ohms
✔ **D. 300 ohms**

33: G9B10
What is the approximate length for a 1/2 wave dipole antenna cut for 14.250 MHz?
A. 8 feet
xB. 16 feet
C. 24 feet
✔ **D. 32 feet**

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: G9D10
Which of the following describes a Beverage antenna?
A. A vertical antenna
B. A broad-band mobile antenna
C. A helical antenna for space reception
✔ **D. A very long and low directional receiving antenna**

Results:
You scored 32 correct answers and 3 incorrect answers from a total of 35.

You would have passed the exam! Congratulations!

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