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: G0B06
Why must the metal enclosure of every item of station equipment be grounded?
xA. It prevents a blown fuse in the event of an internal short circuit
B. It prevents signal overload
C. It ensures that the neutral wire is grounded
✔ **D. It ensures that hazardous voltages cannot appear on the chassis**

Subelement G1

3: G1A11
When General Class licensees are not permitted to use the entire voice portion of a particular band, which portion of the voice segment is generally available to them?
A. The lower frequency end
✔ **B. The upper frequency end**
C. The lower frequency end on frequencies below 7.3 MHz and the upper end on frequencies above 14.150 MHz
D. The upper frequency end on frequencies below 7.3 MHz and the lower end on frequencies above 14.150 MHz

4: G1B10
What is the power limit for beacon stations?
xA. 10 watts PEP output
B. 20 watts PEP output
✔ **C. 100 watts PEP output**
D. 200 watts PEP output

5: G1C11
What is the maximum symbol rate permitted for RTTY or data emission transmissions on the 2-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: G1E05
What types of messages for a third party in another country may be transmitted by an amateur station?
A. Any message, as long as the amateur operator is not paid
B. Only messages for other licensed amateurs
✔ **C. Only messages relating to Amateur Radio or remarks of a personal character, or messages relating to emergencies or disaster relief**
D. Any messages, as long as the text of the message is recorded in the station log

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: G2B06
What is a practical way to avoid harmful interference on an apparently clear frequency before calling CQ on CW or phone?
✔ **A. Send "QRL?" on CW, followed by your call sign; or, if using phone, ask if the frequency is in use, followed by your call sign**
B. Listen for 2 minutes before calling CQ
C. Send the letter "V" in Morse code several times and listen for a response or say "test" several times and listen for a response
D. Send "QSY" on CW or if using phone, announce "the frequency is in use", then give your call and listen for a response

10: G2C07
When sending CW, what does a "C" mean when added to the RST report?
✔ **A. Chirpy or unstable signal**
B. Report was read from an S meter rather than estimated
C. 100 percent copy
D. Key clicks

11: G2D06

How is a directional antenna pointed when making a "long-path" contact with another station?

A. Toward the rising Sun
B. Along the gray line
✔ **C. 180 degrees from its short-path heading**
D. Toward the north

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: G3A01

What is the significance of the sunspot number with regard to HF propagation?

✔ **A. Higher sunspot numbers generally indicate a greater probability of good propagation at higher frequencies**
B. Lower sunspot numbers generally indicate greater probability of sporadic E propagation
C. A zero sunspot number indicate radio propagation is not possible on any band
D. All of these choices are correct.

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: G3C11

Which of the following antenna types will be most effective for skip communications on 40-meters during the day?

A. A vertical antenna
✔ **B. A horizontal dipole placed between 1/8 and 1/4 wavelength above the ground**
C. A left-hand circularly polarized antenna
D. A right-hand circularly polarized antenna

Subelement G4

16: G4A04

What reading on the plate current meter of a vacuum tube RF power amplifier indicates correct adjustment of the plate tuning control?

A. A pronounced peak
✔ **B. A pronounced dip**
C. No change will be observed
D. A slow, rhythmic oscillation

17: G4B02

Which of the following is an advantage of an oscilloscope versus a digital voltmeter?

A. An oscilloscope uses less power
B. Complex impedances can be easily measured
C. Input impedance is much lower
✔ **D. Complex waveforms can be measured**

18: G4C03

What sound is heard from an audio device or telephone if there is interference from a nearby single sideband phone transmitter?

xA. 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
C. Excessive background pickup
✔ **D. All of these choices are correct**

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: 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: G5B11

What is the ratio of peak envelope power to average power for an unmodulated carrier?

A. 0.707
✔ **B. 1.00**
C. 1.414
D. 2.00

23: G5C06

What is the RMS voltage across a 500-turn secondary winding in a transformer if the 2250-turn primary is connected to 120 VAC?

A. 2370 volts
B. 540 volts
✔ **C. 26.7 volts**
D. 5.9 volts

Subelement G6

24: G6A12

What is the primary purpose of a screen grid in a vacuum tube?

✔ **A. To reduce grid-to-plate capacitance**

B. To increase efficiency

C. To increase the control grid resistance

D. To decrease plate resistance

25: G6B03

Which of the following is an advantage of CMOS integrated circuits compared to TTL integrated circuits?

✔ **A. Low power consumption**

B. High power handling capability

C. Better suited for RF amplification

D. Better suited for power supply regulation

Subelement G7

26: G7A12

Which symbol in Figure G7-1 represents a multiple-winding transformer?

A. Symbol 4

B. Symbol 7

✔ **C. Symbol 6**

D. Symbol 1

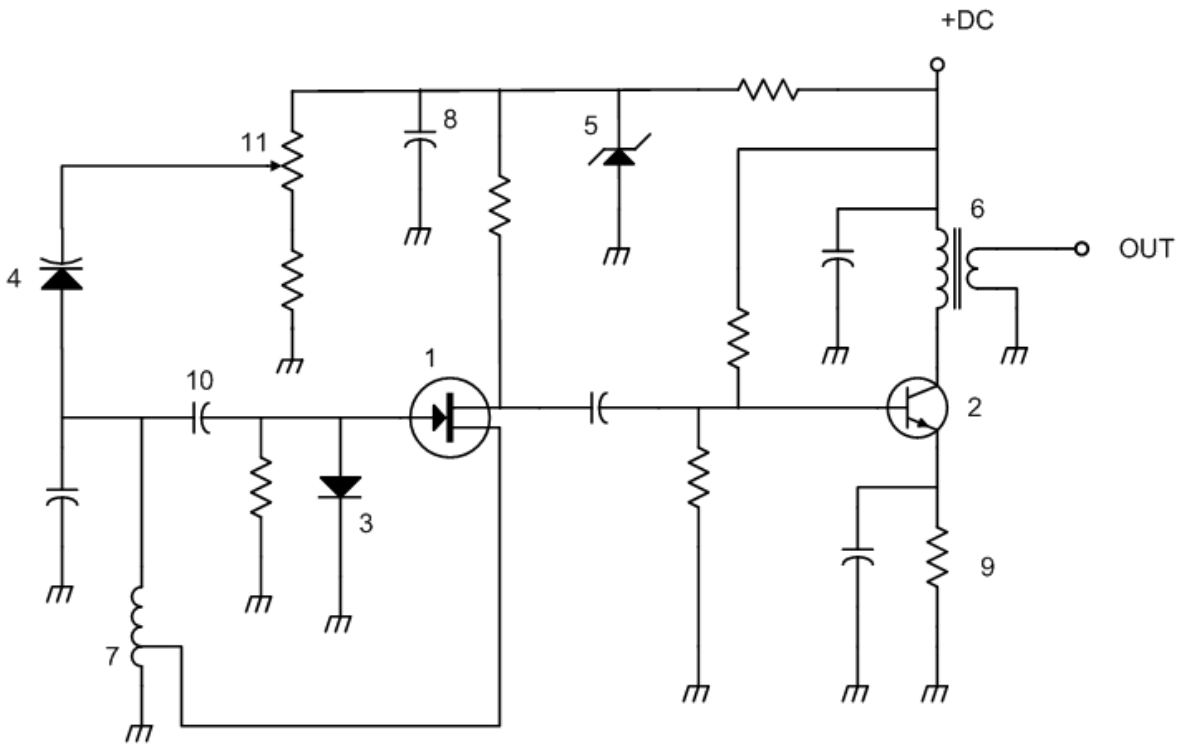

Figure G7-1

27: G7B05

How many states does a 3-bit binary counter have?

A. 3
B. 6
✔ **C. 8**
D. 16

28: G7C01

Which of the following is used to process signals from the balanced modulator then send them to the mixer in some single sideband phone transmitters?

A. Carrier oscillator
✔ **B. Filter**
C. IF amplifier
D. RF amplifier

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**
C. Angle convolution
D. Radian inversion

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: G8C08

Which of the following statements is true about PSK31?

A. Upper case letters make the signal stronger
✔ **B. Upper case letters use longer Varicode signals and thus slow down transmission**
x C. Varicode Error Correction is used to ensure accurate message reception
D. Higher power is needed as compared to RTTY for similar error rates

Subelement G9

32: G9A04

What might cause reflected power at the point where a feed line connects to an antenna?

A. Operating an antenna at its resonant frequency
B. Using more transmitter power than the antenna can handle
✔ **C. A difference between feed line impedance and antenna feed point impedance**
D. Feeding the antenna with unbalanced feed line

33: G9B10

What is the approximate length for a 1/2 wave dipole antenna cut for 14.250 MHz?

A. 8 feet
B. 16 feet
C. 24 feet
✔ **D. 32 feet**

34: G9C05
How does increasing boom length and adding directors affect a Yagi antenna?
✔ **A. Gain increases**
B. Beamwidth increases
C. Front to back ratio decreases
D. Front to side ratio decreases

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

You would have passed the exam! Congratulations!

e›

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