

Results for sample general2015 test paper

Your answers are marked like this:

✓ **A. You got this question right, this is your correct answer.**

✗ *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: G0A01

What is one way that RF energy can affect human body tissue?

✓ **A. It heats body tissue**

- B. It causes radiation poisoning
- C. It causes the blood count to reach a dangerously low level
- D. It cools body tissue

2: G0B07

Which of these choices should be observed when climbing a tower using a safety belt or harness?

A. Never lean back and rely on the belt alone to support your weight

✓ **B. Confirm that the belt is rated for the weight of the climber and that it is within its allowable service life**

- C. Ensure that all heavy tools are securely fastened to the belt D-ring
- D. All of these choices are correct

Subelement G1

3: G1A13

What is the appropriate action if, when operating on either the 30-meter or 60-meter bands, a station in the primary service interferes with your contact?

- A. Notify the FCC's regional Engineer in Charge of the interference
- B. Increase your transmitter's power to overcome the interference
- C. Attempt to contact the station and request that it stop the interference

✓ **D. Move to a clear frequency or stop transmitting**

4: G1B02

With which of the following conditions must beacon stations comply?

A. A beacon station may not use automatic control

✗ **B. The frequency must be coordinated with the National Beacon Organization**

C. The frequency must be posted on the Internet or published in a national periodical

✓ **D. There must be no more than one beacon signal transmitting in the same band from the same station location**

5: G1C06

Which of the following is a limitation on transmitter power on the 1.8 MHz band?

- A. 200 watts PEP output
- B. 1000 watts PEP output
- C. 1200 watts PEP output

✓ **D. 1500 watts PEP output**

6: G1D06

When must you add the special identifier "AG" after your call sign if you are a Technician Class licensee and have a CSCE for General Class operator privileges, but the FCC has not yet posted your upgrade on its website ?

✓ **A. Whenever you operate using General Class frequency privileges**

- B. Whenever you operate on any amateur frequency
- C. Whenever you operate using Technician frequency privileges

✗ **D. A special identifier is not required as long as your General Class license application has been filed with the FCC**

7: G1E03

What is required to conduct communications with a digital station operating under automatic control outside the automatic control band segments?

✓ **A. The station initiating the contact must be under local or remote control**

B. The interrogating transmission must be made by another automatically controlled station

✗ **C. No third party traffic may be transmitted**

D. The control operator of the interrogating station must hold an Extra Class license

Subelement G2

8: G2A05

Which mode of voice communication is most commonly used on the HF amateur bands?

- A. Frequency modulation
- B. Double sideband

✓ **C. Single sideband**

D. Phase modulation

9: G2B04

When selecting a CW transmitting frequency, what minimum separation should be used to minimize interference to stations on adjacent frequencies?

A. 5 to 50 Hz

✓ **B. 150 to 500 Hz**

C. 1 to 3 kHz

D. 3 to 6 kHz

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: G2D11

Which HF antenna would be the best to use for minimizing interference?

A. A quarter-wave vertical antenna

B. An isotropic antenna

✓ **C. A directional antenna**

D. An omnidirectional antenna

12: G2E07

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

✓ **A. 3570 – 3600 kHz**

✗ B. 3500 – 3525 kHz

C. 3700 – 3750 kHz

D. 3775 – 3825 kHz

Subelement G3

13: G3A03

Approximately how long does it take the increased ultraviolet and X-ray radiation from solar flares to affect radio propagation on the Earth?

A. 28 days

✗ B. 1 to 2 hours

✓ **C. 8 minutes**

D. 20 to 40 hours

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

C. Select a frequency just below the critical frequency

D. Select a frequency just above the critical frequency

15: G3C08

Why are HF scatter signals in the skip zone usually weak?

✓ **A. Only a small part of the signal energy is scattered into the skip zone**

B. Signals are scattered from the magnetosphere which is not a good reflector

C. Propagation is through ground waves which absorb most of the signal energy

D. Propagation is through ducts in F region which absorb most of the energy

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: G4B04

What signal source is connected to the vertical input of an oscilloscope when checking the RF envelope pattern of a transmitted signal?

A. The local oscillator of the transmitter

B. An external RF oscillator

C. The transmitter balanced mixer output

✓ **D. The attenuated RF output of the transmitter**

18: G4C02

Which of the following could be a cause of interference covering a wide range of frequencies?

- A. Not using a balun or line isolator to feed balanced antennas
- B. Lack of rectification of the transmitter's signal in power conductors

✓ **C. Arcing at a poor electrical connection**

- D. Using a balun to feed an unbalanced antenna

19: G4D11

How close to the upper edge of the 20-meter General Class band should your displayed carrier frequency be when using 3 kHz wide USB?

- A. At least 3 kHz above the edge of the band

✓ **B. At least 3 kHz below the edge of the band**

- C. Your displayed carrier frequency may be set at the edge of the band
- D. At least 1 kHz below the edge of the segment

20: G4E02

What is the purpose of a corona ball on a HF mobile antenna?

- A. To narrow the operating bandwidth of the antenna
- B. To increase the "Q" of the antenna
- C. To reduce the chance of damage if the antenna should strike an object

✓ **D. To reduce high voltage discharge from the tip of the antenna**

Subelement G5

21: G5A09

What unit is used to measure reactance?

- A. Farad

✓ **B. Ohm**

- C. Ampere
- D. Siemens

22: G5B06

What is the output PEP from a transmitter if an oscilloscope measures 200 volts peak-to-peak across a 50 ohm dummy load connected to the transmitter output?

- A. 1.4 watts

✓ **B. 100 watts**

- C. 353.5 watts
- D. 400 watts

23: G5C07

What is the turns ratio of a transformer used to match an audio amplifier having 600 ohm output impedance to a speaker having 4 ohm impedance?

✓ **A. 12.2 to 1**

- B. 24.4 to 1
- C. 150 to 1
- D. 300 to 1

Subelement G6

24: G6A10

Which element of a triode vacuum tube is used to regulate the flow of electrons between cathode and plate?

✓ **A. Control grid**

- B. Heater
- C. Screen Grid

D. Trigger electrode

25: G6B18

What is a type SMA connector?

- ✓ **B. A small threaded connector suitable for signals up to several GHz**

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

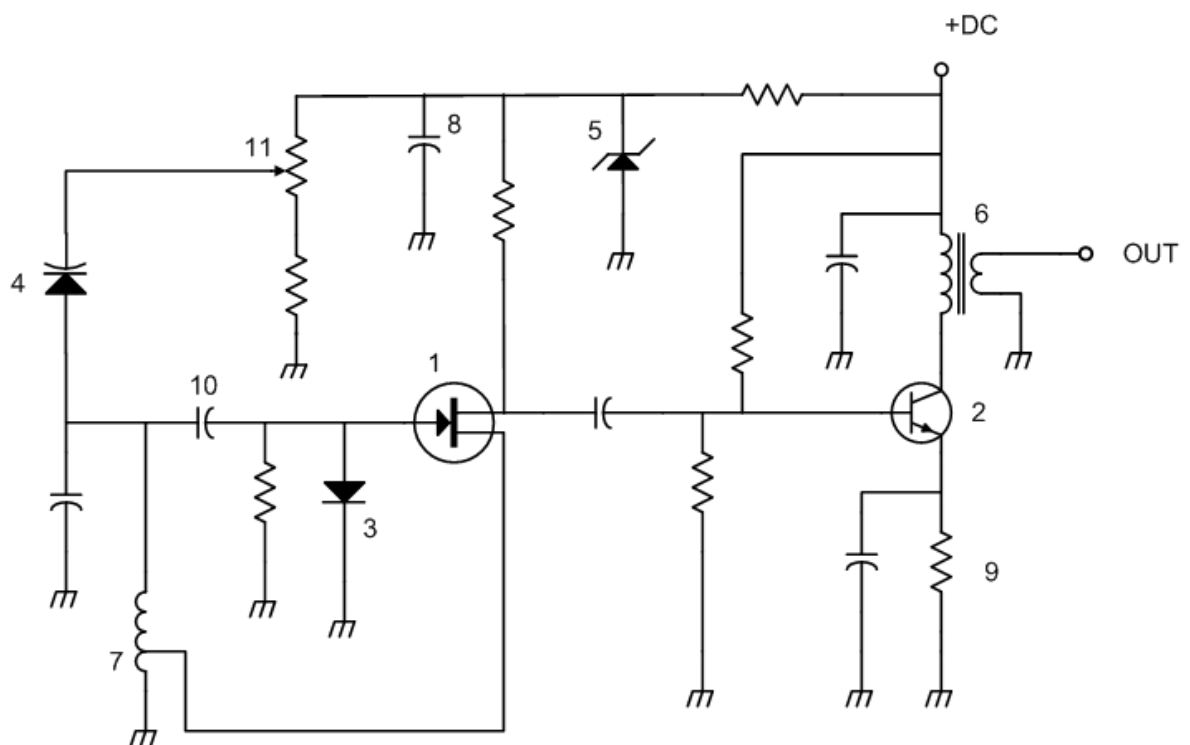


Figure G7-1

27: G7B02

Which of the following is an advantage of using the binary system when processing digital signals?

- ☒ **A. Binary "ones" and "zeros" are easy to represent by an "on" or "off" state**
- ☐ B. The binary number system is most accurate
- ☐ C. Binary numbers are more compatible with analog circuitry
- ☐ D. All of these choices are correct

28: G7C02

Which circuit is used to combine signals from the carrier oscillator and speech amplifier then send the result to the filter in some single sideband phone transmitters?

- A. Discriminator
- B. Detector
- C. IF amplifier

✓ **D. Balanced modulator**

Subelement G8

29: G8A11

What is the modulation envelope of an AM signal?

✓ **A. The waveform created by connecting the peak values of the modulated signal**

- B. The carrier frequency that contains the signal
- C. Spurious signals that envelop nearby frequencies
- D. The bandwidth of the modulated signal

30: G8B07

What is the frequency deviation for a 12.21 MHz reactance modulated oscillator in a 5 kHz deviation, 146.52 MHz FM phone transmitter?

A. 101.75 Hz

✓ **B. 416.7 Hz**

- C. 5 kHz
- D. 60 kHz

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: G9A02

What are the typical characteristic impedances of coaxial cables used for antenna feed lines at amateur stations?

A. 25 and 30 ohms

✓ **B. 50 and 75 ohms**

- C. 80 and 100 ohms
- D. 500 and 750 ohms

33: G9B03

What happens to the feed point impedance of a ground plane antenna when its radials are changed from horizontal to sloping downward?

A. It decreases

✓ **B. It increases**

- C. It stays the same
- D. It reaches a maximum at an angle of 45 degrees

34: G9C14

How does the forward gain of a two-element quad antenna compare to the forward

gain of a three-element Yagi antenna?

- A. About 2/3 as much
- ✓ B. About the same
- C. About 1.5 times as much
- D. About twice as much

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 29 correct answers and 6 incorrect answers from a total of 35.

You would have passed the exam! Congratulations!

e)

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