

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: G0A02

Which of the following properties is important in estimating whether an RF signal exceeds the maximum permissible exposure (MPE)?

- A. Its duty cycle
- B. Its frequency
- C. Its power density

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

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: G1A06

Which of the following frequencies is within the General Class portion of the 75-meter phone band?

- A. 1875 kHz
- B. 3750 kHz

✓ **C. 3900 kHz**

- D. 4005 kHz

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: G1C10

What is the maximum symbol rate permitted for RTTY or data emission transmissions on the 10-meter band?

- 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: 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: G2B11

What frequency should be used to send a distress call?

- ☒ A. Whichever frequency has the best chance of communicating the distress message

xB. Only frequencies authorized for RACES or ARES stations

- C. Only frequencies that are within your operating privileges
- D. Only frequencies used by police, fire or emergency medical services

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: G2D04

Which of the following describes an azimuthal projection map?

- A. A map that shows accurate land masses
- ✓ B. A map that shows true bearings and distances from a particular location**
- C. A map that shows the angle at which an amateur satellite crosses the equator
- D. A map that shows the number of degrees longitude that an amateur satellite appears to move westward at the equator with each orbit

12: G2E06

What is the most common frequency shift for RTTY emissions in the amateur HF bands?

- xA. 85 Hz**
- ✓ B. 170 Hz**
- C. 425 Hz
- D. 850 Hz

Subelement G3

13: G3A16

What is a possible benefit to radio communications resulting from periods of high geomagnetic activity?

- ✓ A. Auroras that can reflect VHF signals**
- B. Higher signal strength for HF signals passing through the polar regions
- xC. Improved HF long path propagation**
- D. Reduced long delayed echoes

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: G3C04

What does the term "critical angle" mean as used in radio wave propagation?

- A. The long path azimuth of a distant station
- B. The short path azimuth of a distant station
- ☐ C. The lowest takeoff angle that will return a radio wave to the Earth under specific ionospheric conditions
- ☒ D. The highest takeoff angle that will return a radio wave to the Earth under specific ionospheric conditions

Subelement G4

16: G4A09

Why is a time delay sometimes included in a transmitter keying circuit?

- A. To prevent stations from interfering with one another
- ☐ B. To allow the transmitter power regulators to charge properly
- ☒ C. To allow time for transmit-receive changeover operations to complete properly before RF output is allowed
- D. To allow time for a warning signal to be sent to other stations

17: G4B10

Which of the following can be determined with a directional wattmeter?

- ☒ A. Standing wave ratio
- B. Antenna front-to-back ratio
- C. RF interference
- D. Radio wave propagation

18: G4C04

What is the effect on an audio device or telephone system if there is interference from a nearby CW transmitter?

- ☒ A. On-and-off humming or clicking
- B. A CW signal at a nearly pure audio frequency
- C. A chirpy CW signal
- D. Severely distorted audio

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: G4E03

Which of the following direct, fused power connections would be the best for a 100 watt HF mobile installation?

- ☒ **A. To the battery using heavy gauge wire**
- B. To the alternator or generator using heavy gauge wire
- C. To the battery using resistor wire
- D. To the alternator or generator using resistor wire

Subelement G5

21: G5A03

Which of the following causes opposition to the flow of alternating current in an inductor?

- A. Conductance
- B. Reluctance
- C. Admittance
- ☒ **D. Reactance**

22: G5B05

How many watts are dissipated when a current of 7.0 milliamperes flows through 1.25 kilohms resistance?

- ☒ **A. Approximately 61 milliwatts**
- B. Approximately 61 watts
- C. Approximately 11 milliwatts
- D. Approximately 11 watts

23: G5C15

What is the total resistance of a 10 ohm, a 20 ohm, and a 50 ohm resistor connected in parallel?

- ☒ **A. 5.9 ohms**
- B. 0.17 ohms
- C. 10000 ohms
- D. 80 ohms

Subelement G6

24: G6A07

What are the stable operating points for a bipolar transistor used as a switch in a logic circuit?

- ☒ **A. Its saturation and cutoff regions**
- B. Its active region (between the cutoff and saturation regions)
- C. Its peak and valley current points
- D. Its enhancement and depletion modes

25: G6B15

What is the main reason to use keyed connectors instead of non-keyed types?

☐ **A. Prevention of use by unauthorized persons**

☒ **B. Reduced chance of incorrect mating**

C. Higher current carrying capacity

D. All of these choices are correct

Subelement G7

26: G7A08

Which of the following is an advantage of a switchmode power supply as compared to a linear power supply?

A. Faster switching time makes higher output voltage possible

B. Fewer circuit components are required

☒ **C. High frequency operation allows the use of smaller components**

D. All of these choices are correct

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: G8A07

Which of the following phone emissions uses the narrowest bandwidth?

☒ **A. Single sideband**

B. Double sideband

C. Phase modulation

D. Frequency modulation

30: G8B10

What is the relationship between transmitted symbol rate and bandwidth?

A. Symbol rate and bandwidth are not related

✓ **B. Higher symbol rates require wider bandwidth**

C. Lower symbol rates require wider bandwidth

D. Bandwidth is always half the symbol rate

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: G9A06

In what units is RF feed line loss usually expressed?

A. Ohms per 1000 feet

B. Decibels per 1000 feet

✗ **C. Ohms per 100 feet**

✓ **D. Decibels per 100 feet**

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: G9C13

Approximately how long is each side of the driven element of a quad antenna?

✓ **A. 1/4 wavelength**

B. 1/2 wavelength

C. 3/4 wavelength

D. 1 wavelength

35: G9D04

What is the primary purpose of antenna traps?

✓ **A. To permit multiband operation**

B. To notch spurious frequencies

C. To provide balanced feed point impedance

D. To prevent out of band operation

Results:

You scored 27 correct answers and 8 incorrect answers from a total of 35.

You would have passed the exam! Congratulations!

e)

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