

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: G0A08

Which of the following steps must an amateur operator take to ensure compliance with RF safety regulations when transmitter power exceeds levels specified in FCC Part 97.13?

- A. Post a copy of FCC Part 97.13 in the station
- B. Post a copy of OET Bulletin 65 in the station
- ✓ **C. Perform a routine RF exposure evaluation**
- D. All of these choices are correct

2: G0B06

Why must the metal enclosure of every item of station equipment be grounded?

- A. 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: G1A09

Which of the following frequencies is within the General Class portion of the 15-meter band?

- A. 14250 kHz
- B. 18155 kHz
- ✓ **C. 21300 kHz**
- D. 24900 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: 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: G1D10

What is the minimum age that one must be to qualify as an accredited Volunteer Examiner?

- A. 12 years
- ☒ **B. 18 years**
- C. 21 years
- D. There is no age limit

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 maybe be transmitted
- D. The control operator of the interrogating station must hold an Extra Class license

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: 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: G2C09

What does the Q signal "QSL" mean?

- A. Send slower
- B. We have already confirmed by card
- ☒ **C. I acknowledge receipt**
- D. We have worked before

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**
- C. 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: G3A08

Which of the following effects can a geomagnetic storm have on radio propagation?

- A. Improved high-latitude HF propagation
- ☒ **B. Degraded high-latitude HF propagation**
- C. Improved ground-wave propagation
- D. Improved chances of UHF ducting

14: G3B01

How might a sky-wave signal sound if it arrives at your receiver by both short path and long path propagation?

- A. Periodic fading approximately every 10 seconds
- B. Signal strength increased by 3 dB
- ☐ C. The signal might be cancelled causing severe attenuation
- ☒ D. A well-defined echo might be heard

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: G4A07

What condition can lead to permanent damage to a solid-state RF power amplifier?

- A. Insufficient drive power
- B. Low input SWR
- C. Shorting the input signal to ground
- ☒ D. Excessive drive power

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: G4C13

Which of the following can perform automatic notching of interfering carriers?

- A. Bandpass tuning
- ☒ B. A Digital Signal Processor (DSP) filter
- C. Balanced mixing
- D. A noise limiter

19: G4D01

What is the purpose of a speech processor as used in a modern transceiver?

- ☒ A. Increase the intelligibility of transmitted phone signals during poor conditions
- B. Increase transmitter bass response for more natural sounding SSB signals
- ☐ C. Prevent distortion of voice signals
- D. Decrease high-frequency voice output to prevent out of band operation

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: G5A09

What unit is used to measure reactance?

- A. Farad

✓ **B. Ohm**

- C. Ampere
- D. Siemens

22: G5B10

What percentage of power loss would result from a transmission line loss of 1 dB?

- A. 10.9 percent
- B. 12.2 percent

✓ **C. 20.5 percent**

- D. 25.9 percent

23: G5C10

What is the inductance of three 10 millihenry inductors connected in parallel?

- A. 0.30 henrys
- B. 3.3 henrys

✓ **C. 3.3 millihenrys**

- D. 30 millihenrys

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: 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

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: G7B06

What is a shift register?

✓ **A. A clocked array of circuits that passes data in steps along the array**

- B. An array of operational amplifiers used for tri-state arithmetic operations
- C. A digital mixer
- D. An analog mixer

28: G7C03

What circuit is used to process signals from the RF amplifier and local oscillator then send the result to the IF filter in a superheterodyne receiver?

- A. Balanced modulator
- B. IF amplifier

✓ **C. Mixer**

D. Detector

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: 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: G9A05

How does the attenuation of coaxial cable change as the frequency of the signal it is carrying increases?

- A. Attenuation is independent of frequency
- ✓ B. Attenuation increases
- x C. Attenuation decreases
- D. Attenuation reaches a maximum at approximately 18 MHz

33: G9B11

What is the approximate length for a 1/2 wave dipole antenna cut for 3.550 MHz?

- A. 42 feet
- B. 84 feet
- ✓ C. 131 feet
- D. 263 feet

34: G9C19

How does antenna gain stated in dBi compare to gain stated in dBd for the same antenna?

- A. dBi gain figures are 2.15 dB lower than dBd gain figures
- ✓ B. dBi gain figures are 2.15 dB higher than dBd gain figures
- C. dBi gain figures are the same as the square root of dBd gain figures multiplied by 2.15
- x D. dBi gain figures are the reciprocal of dBd gain figures + 2.15 dB

35: G9D06

Which of the following is an advantage of a log periodic antenna?

- ✓ A. Wide bandwidth
- B. Higher gain per element than a Yagi antenna
- C. Harmonic suppression
- D. Polarization diversity

Results:

You scored 30 correct answers and 5 incorrect answers from a total of 35.

You would have passed the exam! Congratulations!

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