

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: G0A04

What does "time averaging" mean in reference to RF radiation exposure?

- A. The average amount of power developed by the transmitter over a specific 24 hour period
- B. The average time it takes RF radiation to have any long-term effect on the body
- C. The total time of the exposure

✓ **D. The total RF exposure averaged over a certain time**

2: G0B01

Which wire or wires in a four-conductor connection should be attached to fuses or circuit breakers in a device operated from a 240 VAC single phase source?

✓ **A. Only the two wires carrying voltage**

- B. Only the neutral wire
- C. Only the ground wire
- D. All wires

Subelement G1

3: G1A03

On which of the following bands is image transmission prohibited?

✗ **A. 160 meters**

✓ **B. 30 meters**

- C. 20 meters
- D. 12 meters

4: G1B05

When may music be transmitted by an amateur station?

- A. At any time, as long as it produces no spurious emissions
- B. When it is unintentionally transmitted from the background at the transmitter
- C. When it is transmitted on frequencies above 1215 MHz

✓ **D. When it is an incidental part of a manned space craft retransmission**

5: G1C08

What is the maximum symbol rate permitted for RTTY or data emission transmitted at frequencies below 28 MHz?

- A. 56 kilobaud
- B. 19.6 kilobaud
- C. 1200 baud

✓ **D. 300 baud**

6: G1D08

Which of the following criteria must be met for a non-U.S. citizen to be an accredited Volunteer Examiner?

- A. The person must be a resident of the U.S. for a minimum of 5 years

✓ **B. The person must hold an FCC granted Amateur Radio license of General Class or above**

- C. The person's home citizenship must be in ITU region 2
- D. None of these choices is correct; a non-U.S. citizen cannot be a Volunteer Examiner

7: G1E01

Which of the following would disqualify a third party from participating in stating a message over an amateur station?

✓ **A. The third party's amateur license has been revoked and not reinstated**

- B. The third party is not a U.S. citizen
- C. The third party is a licensed amateur
- D. The third party is speaking in a language other than English

Subelement G2

8: G2A03

Which of the following is most commonly used for SSB voice communications in the VHF and UHF bands?

✓ **A. Upper sideband**

- B. Lower sideband
- C. Vestigial sideband
- D. Double sideband

9: G2B05

What is the customary minimum frequency separation between SSB signals under normal conditions?

- A. Between 150 and 500 Hz

✓ **B. Approximately 3 kHz**

- C. Approximately 6 kHz
- D. Approximately 10 kHz

10: G2C05

What is the best speed to use when answering a CQ in Morse code?

- A. The fastest speed at which you are comfortable copying
- ✓ **B. The speed at which the CQ was sent**
- C. A slow speed until contact is established
- D. At the standard calling speed of 5 wpm

11: G2D05

When is it permissible to communicate with amateur stations in countries outside the areas administered by the Federal Communications Commission?

- ✗ **A. Only when the foreign country has a formal third party agreement filed with the FCC**
- ✓ **B. When the contact is with amateurs in any country except those whose administrations have notified the ITU that they object to such communications**
- C. When the contact is with amateurs in any country as long as the communication is conducted in English
- D. Only when the foreign country is a member of the International Amateur Radio Union

12: G2E03

What symptoms may result from other signals interfering with a PACTOR or WINMOR transmission?

- ✗ **A. Frequent retries or timeouts**
- B. Long pauses in message transmission
- C. Failure to establish a connection between stations
- ✓ **D. All of these choices are correct**

Subelement G3

13: G3A05

What is the solar flux index?

- A. A measure of the highest frequency that is useful for ionospheric propagation between two points on the Earth
- B. A count of sunspots which is adjusted for solar emissions
- C. Another name for the American sunspot number
- ✓ **D. A measure of solar radiation at 10.7 centimeters wavelength**

14: G3B06

What usually happens to radio waves with frequencies below the LUF?

- A. They are bent back to the Earth
- B. They pass through the ionosphere
- ✓ **C. They are completely absorbed by the ionosphere**
- D. They are bent and trapped in the ionosphere to circle the Earth

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: G4A02

What is one advantage of selecting the opposite or "reverse" sideband when receiving CW signals on a typical HF transceiver?

- A. Interference from impulse noise will be eliminated
- B. More stations can be accommodated within a given signal passband

☒ **C. It may be possible to reduce or eliminate interference from other signals**

- D. Accidental out of band operation can be prevented

17: G4B06

What is an advantage of a digital voltmeter as compared to an analog voltmeter?

- A. Better for measuring computer circuits
- B. Better for RF measurements

☒ **C. Better precision for most uses**

- D. Faster response

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: 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: G4E11

Which of the following is a disadvantage of using wind as the primary source of power for an emergency station?

- A. The conversion efficiency from mechanical energy to electrical energy is less than 2 percent

- B. The voltage and current ratings of such systems are not compatible with amateur

equipment

✓ **C. A large energy storage system is needed to supply power when the wind is not blowing**

D. All of these choices are correct

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: 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: 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: G6A09

Which of the following describes the construction of a MOSFET?

A. The gate is formed by a back-biased junction

✓ **B. The gate is separated from the channel with a thin insulating layer**

C. The source is separated from the drain by a thin insulating layer

D. The source is formed by depositing metal on silicon

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: G7A02

Which of the following components are used in a power supply filter network?

- A. Diodes
- B. Transformers and transducers
- C. Quartz crystals

✓ **D. Capacitors and inductors**

27: G7B10

Which of the following is a characteristic of a Class A amplifier?

- A. Low standby power
- B. High Efficiency
- C. No need for bias

✓ **D. Low distortion**

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: G8A01

How is an FSK signal generated?

✗ **A. By keying an FM transmitter with a sub-audible tone**

✓ **B. By changing an oscillator's frequency directly with a digital control signal**

- C. By using a transceiver's computer data interface protocol to change frequencies
- D. By reconfiguring the CW keying input to act as a tone generator

30: G8B03

What is another term for the mixing of two RF signals?

✓ **A. Heterodyning**

- B. Synthesizing
- C. Cancellation
- D. Phase inverting

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: G9A15

What is the effect of transmission line loss on SWR measured at the input to the line?

☒ **A. The higher the transmission line loss, the more the SWR will read artificially low**

☐ **B. The higher the transmission line loss, the more the SWR will read artificially high**

C. The higher the transmission line loss, the more accurate the SWR measurement will be

D. Transmission line loss does not affect the SWR measurement

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: G9C11

What is the purpose of a gamma match used with Yagi antennas?

☒ **A. To match the relatively low feed point impedance to 50 ohms**

B. To match the relatively high feed point impedance to 50 ohms

C. To increase the front-to-back ratio

D. To increase the main lobe gain

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

You would have passed the exam! Congratulations!

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