

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: G0B15

Which of the following is true of an emergency generator installation?

✓ **A. The generator should be located in a well-ventilated area**

B. The generator must be insulated from ground

C. Fuel should be stored near the generator for rapid refueling in case of an emergency

D. All of these choices are correct

Subelement G1

3: G1A14

In what ITU region is operation in the 7.175 to 7.300 MHz band permitted for a control operator holding an FCC issued General Class license?

A. Region 1

✓ **B. Region 2**

C. Region 3

✗ D. All three regions

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: G1C03

What is the maximum bandwidth permitted by FCC rules for Amateur Radio stations transmitting on USB frequencies in the 60-meter band?

- ☒ **A. 2.8 kHz**
- B. 5.6 kHz
- C. 1.8 kHz
- D. 3 kHz

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- ☒ **A. The third party's amateur license has been revoked and not reinstated**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: G2A08

Which of the following is a recommended way to break into a contact when using phone?

- A. Say "QRZ" several times followed by your call sign
- ☒ **B. Say your call sign during a break between transmissions by the other stations**
- C. Say "Break Break Break" and wait for a response
- D. Say "CQ" followed by the call sign of either station

9: G2B10

When may the FCC restrict normal frequency operations of amateur stations participating in RACES?

- A. When they declare a temporary state of communication emergency
- B. When they seize your equipment for use in disaster communications

C. Only when all amateur stations are instructed to stop transmitting

✓ **D. When the President's War Emergency Powers have been invoked**

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: G2D01

What is the Amateur Auxiliary to the FCC?

✓ **A. Amateur volunteers who are formally enlisted to monitor the airwaves for rules violations**

xB. Amateur volunteers who conduct amateur licensing examinations

C. Amateur volunteers who conduct frequency coordination for amateur VHF repeaters

D. Amateur volunteers who use their station equipment to help civil defense organizations in times of emergency

12: G2E05

What is the standard sideband used to generate a JT65 or JT9 digital signal when using AFSK in any amateur band?

xA. LSB

✓ **B. USB**

C. DSB

D. SSB

Subelement G3

13: G3A02

What effect does a Sudden Ionospheric Disturbance have on the daytime ionospheric propagation of HF radio waves?

A. It enhances propagation on all HF frequencies

✓ **B. It disrupts signals on lower frequencies more than those on higher frequencies**

C. It disrupts communications via satellite more than direct communications

D. None, because only areas on the night side of the Earth are affected

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: G3C02

Where on the Earth do ionospheric layers reach their maximum height?

✓ **A. Where the Sun is overhead**

x B. Where the Sun is on the opposite side of the Earth

- C. Where the Sun is rising
- D. Where the Sun has just set

Subelement G4

16: G4A11

Which of the following is a use for the IF shift control on a receiver?

✓ **A. To avoid interference from stations very close to the receive frequency**

- B. To change frequency rapidly
- C. To permit listening on a different frequency from that on which you are transmitting
- D. To tune in stations that are slightly off frequency without changing your transmit frequency

17: G4B13

What is a use for an antenna analyzer other than measuring the SWR of an antenna system?

- A. Measuring the front to back ratio of an antenna
- B. Measuring the turns ratio of a power transformer
- ✓ **C. Determining the impedance of an unknown or unmarked coaxial cable**
- D. Determining the gain of a directional antenna

18: G4C08

Which of the following would reduce RF interference caused by common-mode current on an audio cable?

- ✓ **A. Placing a ferrite choke around the cable**
- B. Adding series capacitors to the conductors
- C. Adding shunt inductors to the conductors
- D. Adding an additional insulating jacket to the cable

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: G4E08

What is the name of the process by which sunlight is changed directly into electricity?

✓ **A. Photovoltaic conversion**

- B. Photon emission
- C. Photosynthesis
- D. Photon decomposition

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: G5C13

Which of the following components should be added to a capacitor to increase the capacitance?

- A. An inductor in series
- B. A resistor in series
- ✓ C. A capacitor in parallel
- D. A capacitor in series

Subelement G6

24: G6A06

Which of the following is an advantage of using a Schottky diode in an RF switching circuit rather than a standard silicon diode?

- ✓ A. Lower capacitance
- B. Lower inductance
- C. Longer switching times
- D. Higher breakdown voltage

25: G6B04

What is meant by the term ROM?

- A. Resistor Operated Memory
- ✓ B. Read Only Memory

- C. Random Operational Memory
- D. Resistant to Overload Memory

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: G7B13

What is the reason for neutralizing the final amplifier stage of a transmitter?

- A. To limit the modulation index
- ✓ B. To eliminate self-oscillations
- C. To cut off the final amplifier during standby periods
- D. To keep the carrier on frequency

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: G8A03

What is the name of the process that changes the instantaneous frequency of an RF wave to convey information?

- A. Frequency convolution
- B. Frequency transformation
- C. Frequency conversion
- ✓ 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: G8C10

How does forward error correction (FEC) allow the receiver to correct errors in received data packets?

- A. By controlling transmitter output power for optimum signal strength
- B. By using the varicode character set
- ☒ **C. By transmitting redundant information with the data**
- D. By using a parity bit with each character

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**
- C. Attenuation decreases
- D. Attenuation reaches a maximum at approximately 18 MHz

33: G9B08

How does the feed point impedance of a 1/2 wave dipole change as the feed point is moved from the center toward the ends?

- ☒ **A. It steadily increases**
- B. It steadily decreases
- C. It peaks at about 1/8 wavelength from the end
- D. It is unaffected by the location of the feed point

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

You would have passed the exam! Congratulations!

e)

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