

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: G0A11

What precaution should you take if you install an indoor transmitting antenna?

- A. Locate the antenna close to your operating position to minimize feed line radiation
- B. Position the antenna along the edge of a wall to reduce parasitic radiation

✓ **C. Make sure that MPE limits are not exceeded in occupied areas**

- D. Make sure the antenna is properly shielded

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: G1A02

On which of the following bands is phone operation prohibited?

- A. 160 meters

✓ **B. 30 meters**

- C. 17 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: G1C05

Which of the following is a limitation on transmitter power on the 28 MHz band for a General Class control operator?

- A. 100 watts PEP output
- B. 1000 watts PEP output

✓ **C. 1500 watts PEP output**

- D. 2000 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: 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: 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: G2B02

What is the first thing you should do if you are communicating with another amateur station and hear a station in distress break in?

- A. Continue your communication because you were on the frequency first

✓ **B. Acknowledge the station in distress and determine what assistance may be needed**

- C. Change to a different frequency
- D. Immediately cease all transmissions

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: G2D01

What is the Amateur Auxiliary to the FCC?

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

- B. 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: G2E11

What is indicated on a waterfall display by one or more vertical lines adjacent to a PSK31 signal?

- A. Long Path propagation
- B. Backscatter propagation
- ☐ C. Insufficient modulation
- ☒ D. Overmodulation

Subelement G3

13: G3A13

What does the A-index indicate?

- A. The relative position of sunspots on the surface of the Sun
- B. The amount of polarization of the Sun's electric field
- ☒ C. The long term stability of the Earth's geomagnetic field
- D. The solar radio flux at Boulder, Colorado

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: 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: G4A05

What is a reason to use Automatic Level Control (ALC) with an RF power amplifier?

- A. To balance the transmitter audio frequency response
- B. To reduce harmonic radiation
- ☒ C. To reduce distortion due to excessive drive
- D. To increase overall efficiency

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: G4C06

What effect can be caused by a resonant ground connection?

- A. Overheating of ground straps

B. Corrosion of the ground rod

✓ **C. High RF voltages on the enclosures of station equipment**

D. A ground loop

19: G4D04

What does an S meter measure?

A. Conductance

B. Impedance

✓ **C. Received signal strength**

D. Transmitter power output

20: G4E09

What is the approximate open-circuit voltage from a fully illuminated silicon photovoltaic cell?

A. 0.02 VDC

✓ **B. 0.5 VDC**

C. 0.2 VDC

D. 1.38 VDC

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: G5C11

What is the inductance of a 20 millihenry inductor connected in series with a 50 millihenry inductor?

A. 0.07 millihenrys

B. 14.3 millihenrys

✓ **C. 70 millihenrys**

D. 1000 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: G6B18

What is a type SMA connector?

- ☐ A. A large bayonet connector usable at power levels in excess of 1 KW
☒ **B. A small threaded connector suitable for signals up to several GHz**
☐ C. A connector designed for serial multiple access signals
☐ D. A type of push-on connector intended for high voltage applications

Subelement G7

26: G7A09

Which symbol in figure G7-1 represents a field effect transistor?

- A. Symbol 2
B. Symbol 5
✓ C. Symbol 1
D. Symbol 4

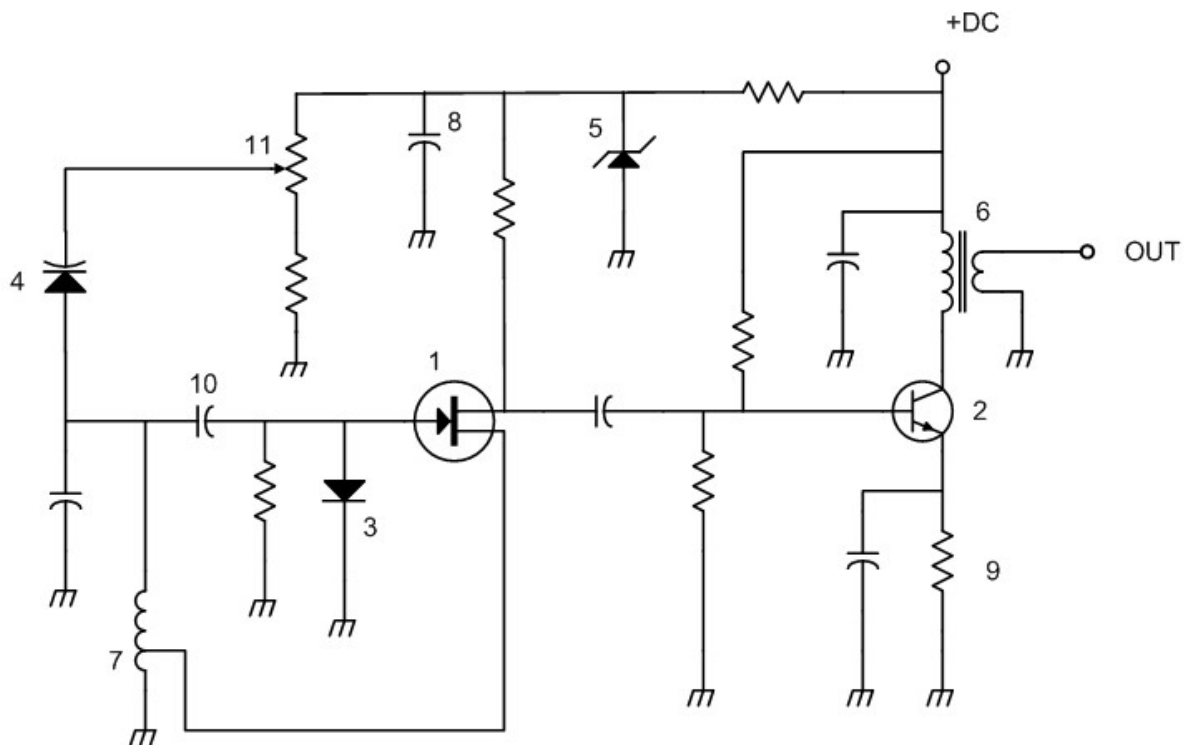


Figure G7-1

27: G7B04

Which of the following describes the function of a two input NOR gate?

- ☐ A. Output is high when either or both inputs are low
☐ B. Output is high only when both inputs are high
☒ **C. Output is low when either or both inputs are high**
☐ D. Output is low only when both inputs are high

28: G7C05

26. 07-000
Which of the following is an advantage of a transceiver controlled by a direct digital synthesizer (DDS)?

- A. Wide tuning range and no need for band switching
- B. Relatively high power output
- C. Relatively low power consumption

✓ **D. Variable frequency with the stability of a crystal oscillator**

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: G8C02

How many data bits are sent in a single PSK31 character?

- ✓ **A. The number varies**
- B. 5
 - C. 7
 - D. 8

Subelement G9

32: G9A04

What might cause reflected power at the point where a feed line connects to an antenna?

- A. Operating an antenna at its resonant frequency
- B. Using more transmitter power than the antenna can handle
- ✓ **C. A difference between feed line impedance and antenna feed point impedance**
- D. Feeding the antenna with unbalanced feed line

33: G9B06

Where should the radial wires of a ground-mounted vertical antenna system be placed?

- A. As high as possible above the ground
- B. Parallel to the antenna element
- ✓ **C. On the surface of the Earth or buried a few inches below the ground**
- D. At the center of the antenna

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

D. dBi gain figures are the reciprocal of dBd gain figures + 2.15 dB

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 32 correct answers and 3 incorrect answers from a total of 35.

You would have passed the exam! Congratulations!

e)

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