

## 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: G0A12

**What precaution should you take whenever you make adjustments or repairs to an antenna?**

- A. Ensure that you and the antenna structure are grounded
- ✓ **B. Turn off the transmitter and disconnect the feed line**
- C. Wear a radiation badge
- D. All of these choices are correct

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: 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: G1B02

**With which of the following conditions must beacon stations comply?**

- A. A beacon station may not use automatic control
- B. The frequency must be coordinated with the National Beacon Organization
- C. The frequency must be posted on the Internet or published in a national periodical
- ✓ **D. There must be no more than one beacon signal transmitting in the same band from the same station location**

5: G1C09

**What is the maximum symbol rate permitted for RTTY or data emission transmitted on the 1.25-meter and 70-centimeter bands?**

✓ **A. 56 kilobaud**

- B. 19.6 kilobaud
- C. 1200 baud
- D. 300 baud

6: G1D09

**How long is a Certificate of Successful Completion of Examination (CSCE) valid for exam element credit?**

- A. 30 days
- B. 180 days

✓ **C. 365 days**

- D. For as long as your current license is valid

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

## Subelement G2

8: G2A02

**Which of the following modes is most commonly used for voice communications on the 160-meter, 75-meter, and 40-meter bands?**

- A. Upper sideband

✓ **B. Lower sideband**

- C. Vestigial sideband
- D. Double sideband

9: G2B04

**When selecting a CW transmitting frequency, what minimum separation should be used to minimize interference to stations on adjacent frequencies?**

- A. 5 to 50 Hz

✓ **B. 150 to 500 Hz**

- C. 1 to 3 kHz
- D. 3 to 6 kHz

10: G2C07

**When sending CW, what does a "C" mean when added to the RST report?**

✓ **A. Chirpy or unstable signal**

- B. Report was read from an S meter rather than estimated
- C. 100 percent copy
- D. Key clicks

11: G2D11

**Which HF antenna would be the best to use for minimizing interference?**

- A. A quarter-wave vertical antenna
- B. An isotropic antenna

✓ **C. A directional antenna**

- D. An omnidirectional antenna

12: G2E08

**In what segment of the 20-meter band are most PSK31 operations commonly found?**

- A. At the bottom of the slow-scan TV segment, near 14.230 MHz
- B. At the top of the SSB phone segment, near 14.325 MHz
- C. In the middle of the CW segment, near 14.100 MHz

✓ **D. Below the RTTY segment, near 14.070 MHz**

## Subelement G3

13: G3A09

**What effect does a high sunspot number have on radio communications?**

- A. High-frequency radio signals become weak and distorted
- B. Frequencies above 300 MHz become usable for long-distance communication

✓ **C. Long-distance communication in the upper HF and lower VHF range is enhanced**

- D. Microwave communications become unstable

14: G3B11

**What happens to HF propagation when the LUF exceeds the MUF?**

✓ **A. No HF radio frequency will support ordinary sky-wave communications over the path**

- B. HF communications over the path are enhanced
- C. Double hop propagation along the path is more common
- D. Propagation over the path on all HF frequencies is enhanced

15: G3C01

**Which ionospheric layer is closest to the surface of the Earth?**

✓ **A. The D layer**

- B. The E layer
- C. The F1 layer
- D. The F2 layer

## Subelement G4

16: G4A12

**Which of the following is a common use for the dual VFO feature on a transceiver?**

- A. To allow transmitting on two frequencies at once
- B. To permit full duplex operation, that is transmitting and receiving at the same time

✓ **C. To permit monitoring of two different frequencies**

- D. To facilitate computer interface

17: G4B05

**Why is high input impedance desirable for a voltmeter?**

- A. It improves the frequency response
- B. It decreases battery consumption in the meter

✗ **C. It improves the resolution of the readings**

✓ **D. It decreases the loading on circuits being measured**

18: G4C12

**Which of the following is an advantage of a receiver DSP IF filter as compared to an analog filter?**

✓ **A. A wide range of filter bandwidths and shapes can be created**

- B. Fewer digital components are required
- C. Mixing products are greatly reduced

D. The DSP filter is much more effective at VHF frequencies

19: G4D10

**How close to the lower edge of the 40-meter General Class phone segment should your displayed carrier frequency be when using 3 kHz wide LSB?**

☒ **A. At least 3 kHz above the edge of the segment**

B. At least 3 kHz below the edge of the segment

C. Your displayed carrier frequency may be set at the edge of the segment

D. At least 1 kHz above the edge of the segment

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: G5A04

**Which of the following causes opposition to the flow of alternating current in a capacitor?**

A. Conductance

B. Reluctance

☒ **C. Reactance**

D. Admittance

22: G5B03

**How many watts of electrical power are used if 400 VDC is supplied to an 800 ohm load?**

A. 0.5 watts

☒ **B. 200 watts**

C. 400 watts

D. 3200 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: G6A05

**What is the approximate junction threshold voltage of a conventional silicon diode?**

A. 0.1 volt

B. 0.3 volts

✓ **C. 0.7 volts**

D. 1.0 volts

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: G7A10

**Which symbol in figure G7-1 represents a Zener diode?**

A. Symbol 4

B. Symbol 1

C. Symbol 11

✓ **D. Symbol 5**

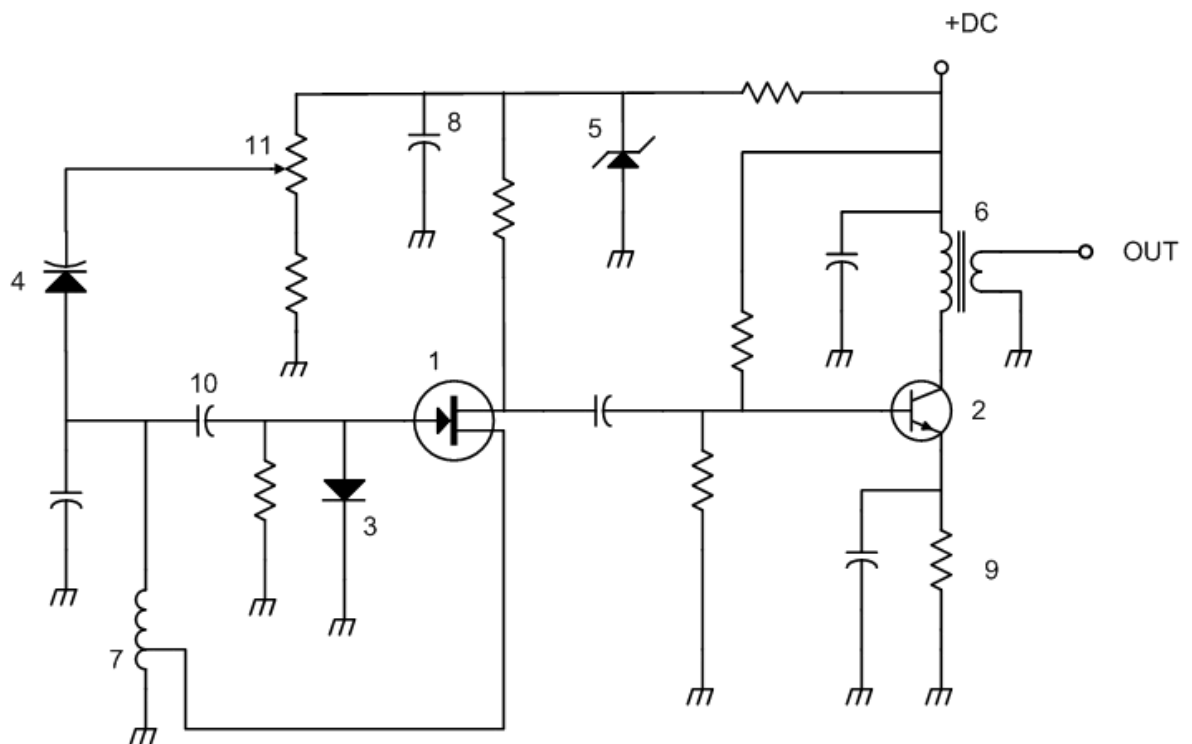


Figure G7-1

27: G7B05

**How many states does a 3-bit binary counter have?**

A. 3

B. 6

✓ **C. 8**

D. 16

28: G7C04

**What circuit is used to combine signals from the IF amplifier and BFO and send the result to the AF amplifier in some single sideband receivers?**

- A. RF oscillator
- B. IF filter
- C. Balanced modulator

✓ **D. Product detector**

## Subelement G8

29: G8A08

**Which of the following is an effect of overmodulation?**

✗ **A. Insufficient audio**

- B. Insufficient bandwidth
- C. Frequency drift

✓ **D. Excessive bandwidth**

30: G8B06

**What is the total bandwidth of an FM phone transmission having 5 kHz deviation and 3 kHz modulating frequency?**

- A. 3 kHz
- B. 5 kHz
- C. 8 kHz

✓ **D. 16 kHz**

31: G8C08

**Which of the following statements is true about PSK31?**

- A. Upper case letters make the signal stronger

✓ **B. Upper case letters use longer Varicode signals and thus slow down transmission**

- C. Varicode Error Correction is used to ensure accurate message reception
- D. Higher power is needed as compared to RTTY for similar error rates

## Subelement G9

32: G9A01

**Which of the following factors determine the characteristic impedance of a parallel conductor antenna feed line?**

✓ **A. The distance between the centers of the conductors and the radius of the conductors**

- B. The distance between the centers of the conductors and the length of the line
- C. The radius of the conductors and the frequency of the signal
- D. The frequency of the signal and the length of the line

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: G9C08

**What is meant by the "main lobe" of a directive antenna?**

- A. The magnitude of the maximum vertical angle of radiation
- B. The point of maximum current in a radiating antenna element
- C. The maximum voltage standing wave point on a radiating element

✓ **D. The direction of maximum radiated field strength from the antenna**

35: G9D03

**At what height above ground is an NVIS antenna typically installed?**

- A. As close to 1/2 wavelength as possible
- B. As close to one wavelength as possible
- C. Height is not critical as long as it is significantly more than 1/2 wavelength

✓ **D. Between 1/10 and 1/4 wavelength**

**Results:**

**You scored 33 correct answers and 2 incorrect answers from a total of 35.**

**You would have passed the exam! Congratulations!**

e)

---

Click here to [take another test](#).

Please mail any comments to me, [Simon AA9PW](#), I appreciate your feedback. If you Like the site, please Like us on Facebook!



aa9pw  
1,888 likes

