

## 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.**

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### Subelement G0

1: G0A07

**What effect does transmitter duty cycle have when evaluating RF exposure?**

✓ **A. A lower transmitter duty cycle permits greater short-term exposure levels**

✗ **B. A higher transmitter duty cycle permits greater short-term exposure levels**

C. Low duty cycle transmitters are exempt from RF exposure evaluation requirements

D. High duty cycle transmitters are exempt from RF exposure requirements

2: G0B03

**Which size of fuse or circuit breaker would be appropriate to use with a circuit that uses AWG number 14 wiring?**

A. 100 amperes

B. 60 amperes

C. 30 amperes

✓ **D. 15 amperes**

### 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: G1B09

**When may an amateur station transmit communications in which the licensee or control operator has a pecuniary (monetary) interest?**

✓ **A. When other amateurs are being notified of the sale of apparatus normally used in an amateur station and such activity is not done on a regular basis**

B. Only when there is no other means of communications readily available

C. When other amateurs are being notified of the sale of any item with a monetary value less than \$200 and such activity is not done on a regular basis

✗ **D. Never**

5: G1C01

**What is the maximum transmitting power an amateur station may use on 10.140 MHz?**

- A. 200 watts PEP output**
- B. 1000 watts PEP output
- xC. 1500 watts PEP output**
- D. 2000 watts PEP output

6: G1D11

**If a person has an expired FCC issued amateur radio license of General Class or higher, what is required before they can receive a new license?**

- A. They must have a letter from the FCC showing they once held an amateur or commercial license
- xB. There are no requirements other than being able to show a copy of the expired license**
- C. The applicant must be able to produce a copy of a page from a call book published in the USA showing his or her name and address
- D. The applicant must pass the current element 2 exam**

7: G1E05

**What types of messages for a third party in another country may be transmitted by an amateur station?**

- A. Any message, as long as the amateur operator is not paid
- B. Only messages for other licensed amateurs
- C. Only messages relating to Amateur Radio or remarks of a personal character, or messages relating to emergencies or disaster relief**
- D. Any messages, as long as the text of the message is recorded in the station log

## 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: 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
- xD. A portion of the band that has been voluntarily set aside for digital contacts only**

10: G2C11

**What does the Q signal "QRV" mean?**

- A. You are sending too fast
- B. There is interference on the frequency
- C. I am quitting for the day
- D. I am ready to receive messages**

11: G2D06

**How is a directional antenna pointed when making a "long-path" contact with**

another station?

- A. Toward the rising Sun
- B. Along the gray line
- C. 180 degrees from its short-path heading
- D. Toward the north

12: G2E07

What segment of the 80-meter band is most commonly used for digital transmissions?

- A. 3570 â€” 3600 kHz
- B. 3500 â€” 3525 kHz
- C. 3700 â€” 3750 kHz
- D. 3775 â€” 3825 kHz

## 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: G3B02

Which of the following is a good indicator of the possibility of sky-wave propagation on the 6-meter band?

- A. Short skip sky-wave propagation on the 10-meter band
- B. Long skip sky-wave propagation on the 10-meter band
- C. Severe attenuation of signals on the 10-meter band
- D. Long delayed echoes on the 10-meter band

15: G3C04

What does the term "critical angle" mean as used in radio wave propagation?

- A. The long path azimuth of a distant station
- B. The short path azimuth of a distant station
- C. The lowest takeoff angle that will return a radio wave to the Earth under specific ionospheric conditions
- D. The highest takeoff angle that will return a radio wave to the Earth under specific ionospheric conditions

## 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: G4B11

Which of the following must be connected to an antenna analyzer when it is being used for SWR measurements?

- A. Receiver

B. Transmitter

**C. Antenna and feed line**

D. All of these choices are correct

18: G4C03

**What sound is heard from an audio device or telephone if there is interference from a nearby single sideband phone transmitter?**

A. A steady hum whenever the transmitter is on the air

B. On-and-off humming or clicking

**C. Distorted speech**

D. Clearly audible speech

19: G4D04

**What does an S meter measure?**

A. Conductance

B. Impedance

**C. Received signal strength**

D. Transmitter power output

20: G4E05

**Which of the following most limits the effectiveness of an HF mobile transceiver operating in the 75-meter band?**

A. "Picket Fencing" signal variation

B. The wire gauge of the DC power line to the transceiver

**C. The antenna system**

D. FCC rules limiting mobile output power on the 75-meter band

## **Subelement G5**

21: G5A01

**What is impedance?**

A. The electric charge stored by a capacitor

B. The inverse of resistance

**C. The opposition to the flow of current in an AC circuit**

D. The force of repulsion between two similar electric fields

22: G5B13

**What is the output PEP of an unmodulated carrier if an average reading wattmeter connected to the transmitter output indicates 1060 watts?**

A. 530 watts

**B. 1060 watts**

C. 1500 watts

D. 2120 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: 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: G7A11

**Which symbol in figure G7-1 represents an NPN junction transistor?**

A. Symbol 1

**B. Symbol 2**

C. Symbol 7

D. Symbol 11

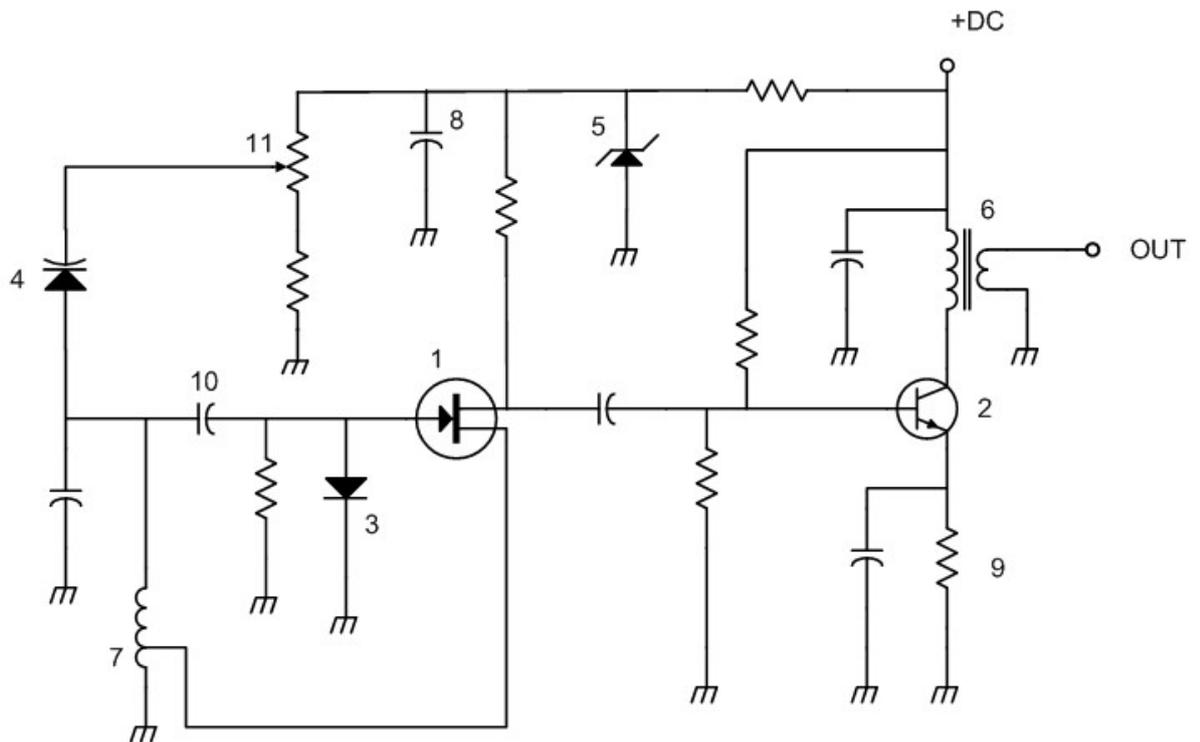


Figure G7-1

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: G7C07

What is the simplest combination of stages that implement a superheterodyne receiver?

- A. RF amplifier, detector, audio amplifier
- B. RF amplifier, mixer, IF discriminator
- C. HF oscillator, mixer, detector
- D. HF oscillator, prescaler, audio amplifier

## 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: G8B01

What receiver stage combines a 14.250 MHz input signal with a 13.795 MHz oscillator

signal to produce a 455 kHz intermediate frequency (IF) signal?

A. Mixer

- B. BFO  
C. VFO  
D. Discriminator

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: G9A09

What standing wave ratio will result when connecting a 50 ohm feed line to a non-reactive load having 200 ohm impedance?

A. 4:1

- B. 1:4  
C. 2:1  
D. 1:2

33: G9B04

What is the radiation pattern of a dipole antenna in free space in the plane of the conductor?

A. It is a figure-eight at right angles to the antenna

- B. It is a figure-eight off both ends of the antenna  
C. It is a circle (equal radiation in all directions)  
D. It has a pair of lobes on one side of the antenna and a single lobe on the other side

34: G9C13

Approximately how long is each side of the driven element of a quad antenna?

A. 1/4 wavelength

- B. 1/2 wavelength  
C. 3/4 wavelength

D. 1 wavelength

35: G9D11

Which of the following is a disadvantage of multiband antennas?

A. They present low impedance on all design frequencies

- B. They must be used with an antenna tuner  
C. They must be fed with open wire line  
 D. They have poor harmonic rejection

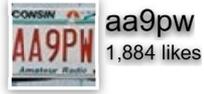
Results:

**You scored 25 correct answers and 10 incorrect answers from a total of 35.**

**Unfortunately, you had 10 wrong answers and you are only allowed 9.**

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