Section 2.5

G1E07 (D) [97.111]
In what part of the 13-centimeter band may an amateur station communicate with non-licensed Wi-Fi stations?
A. Anywhere in the band
B. Channels 1 through 4
C. Channels 42 through 45
D. No part
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G8C01 (C)
On what band do amateurs share channels with the unlicensed Wi-Fi service?
A. 432 MHz
B. 902 MHz
C. 2.4 GHz
D. 10.7 GHz
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G2E02 (B)
How can a PACTOR modem or controller be used to determine if the channel is in use by other PACTOR stations?
A. Unplug the data connector temporarily and see if the channel-busy indication is turned off
B. Put the modem or controller in a mode which allows monitoring communications without a connection
C. Transmit UI packets several times and wait to see if there is a response from another PACTOR station
D. Send the message, "Is this frequency in use?"
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G2E03 (D)
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 these choices are correct
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G2E09 (C)
How do you join a contact between two stations using the PACTOR protocol?
A. Send broadcast packets containing your call sign while in MONITOR mode
B. Transmit a steady carrier until the PACTOR protocol times out and disconnects
C. Joining an existing contact is not possible, PACTOR connections are limited to two stations
D. Send a NAK response continuously so that the sending station must stand by
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G8B05 (D)
What is the approximate bandwidth of a PACTOR-III signal at maximum data rate?
A. 31.5 Hz
B. 500 Hz
C. 1800 Hz
D. 2300 Hz
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G8C05 (A)

In the PACTOR protocol, what is meant by an NAK response to a transmitted packet?
A. The receiver is requesting the packet be retransmitted
B. The receiver is reporting the packet was received without error
C. The receiver is busy decoding the packet
D. The entire file has been received correctly
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G8C06 (B)
What action results from a failure to exchange information due to excessive transmission attempts when using PACTOR or WINMOR?
A. The checksum overflows
B. The connection is dropped
C. Packets will be routed incorrectly
D. Encoding reverts to the default character set
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G2E10 (D)
Which of the following is a way to establish contact with a digital messaging system gateway station?
A. Send an email to the system control operator
B. Send QRL in Morse code
C. Respond when the station broadcasts its SSID
D. Transmit a connect message on the station's published frequency
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G2E13 (A)
Which communication system sometimes uses the internet to transfer messages?
A. Winlink
B. RTTY
C. ARES
D. SKYWARN
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G2E08 (D)
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
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G8A06 (C)
Which of the following is characteristic of QPSK31?
A. It is sideband sensitive
B. It has forward error correction
C. The bandwidth is slightly higher than BPSK31
D. All these choices are correct
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G8C08 (B)
Which of the following statements is true about PSK31?
A. Upper case letters are sent with more power
B. Upper case letters use longer Varicode symbols and thus slow down transmission
C. Error correction is used to ensure accurate message reception
D. Higher power is needed as compared to RTTY for similar error rates
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G8C09 (A)
What does the number 31 represent in "PSK31"?
A. The approximate transmitted symbol rate
B. The version of the PSK protocol
C. The year in which PSK31 was invented
D. The number of characters that can be represented by PSK31
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G8C12 (A)
Which type of code is used for sending characters in a PSK31 signal?
A. Varicode
B. Viterbi
C. Volumetric
D. Binary
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G8C13 (D)
What is indicated on a waterfall display by one or more vertical lines on either side of a digital signal?
A. Long path propagation
B. Backscatter propagation
C. Insufficient modulation
D. Overmodulation
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G8C14 (C)
Which of the following describes a waterfall display?
A. Frequency is horizontal, signal strength is vertical, time is intensity
B. Frequency is vertical, signal strength is intensity, time is horizontal
C. Frequency is horizontal, signal strength is intensity, time is vertical
D. Frequency is vertical, signal strength is horizontal, time is intensity
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G8A09 (A)
What type of modulation is used by the FT8 digital mode?
A. 8-tone frequency shift keying
B. Vestigial sideband
C. Amplitude compressed AM
D. Direct sequence spread spectrum
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G8A12 (B)
Which of the following narrow-band digital modes can receive signals with very low signal-to-noise ratios?
A. MSK144
B. FT8
C. AMTOR
D. MFSK32
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G2E15 (B)
Which of the following is a requirement when using the FT8 digital mode?
A. A special hardware modem
B. Computer time accurate within approximately 1 second
C. Receiver attenuator set to -12 dB
D. A vertically polarized antenna

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G2E11 (D)
Which of the following is characteristic of the FT8 mode of the WSJT-X family?
A. It is a keyboard-to-keyboard chat mode
B. Each transmission takes exactly 60 seconds
C. It is limited to use on VHF
D. Typical exchanges are limited to call signs, grid locators, and signal reports
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G2E05 (B)
What is the standard sideband used to generate a JT65, JT9, or FT8 digital signal when using AFSK in any amateur band?
A. LSB
B. USB
C. DSB
D. SSB
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G8C02 (A)
Which digital mode is used as a low-power beacon for assessing HF propagation?
A. WSPR
B. Olivia
C. PSK31
D. SSB-SC
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