DX CHALLENGE #6:
MORE GENERAL KNOWLEDGE

Question pools for amateur radio licenses are updated every four years, reflecting an attempt to stay current with law changes and technology updates.

A frequent topic of discussions is whether renewal of ham licenses should necessitate retesting, or have a requirement for continuing education credits.

Let's see how up to date we are with our knowledge. Last month we tested our knowledge with five questions drawn from the current General Class License question pool. This month we offer five additional General Class License questions worded exactly as they appear in the official question pool. Let's see how well you do.

Question #1: (G6A11)

What happens when an inductor is operated above its self-resonant frequency?

A. Its reactance increases

B. Harmonics are generated

C. It becomes capacitive

D. Catastrophic failure is likely

Question #2: (G8A13)

What is a link budget?

A. The financial costs associated with operating a radio link

B. The sum of antenna gains minus system losses

C. The sum of transmit power and antenna gains minus system losses as seen at the receiver

D. The difference between transmit power and receiver sensitivity

Question #3: (G8B13)

Which of the following is an odd-order intermodulation product of frequencies F1 and F2?

A. 5F1-3F2

B. 3F1-F2

C. 2F1-F2

D. All these choices are correct

Question #4: (G8A09)

What type of modulation is used by FT8?

A. 8-tone frequency shift keying

B. Vestigial sideband

C. Amplitude compressed AM

D. 8-bit direct sequence spread spectrum

Question #5: (G2E11)

What is the primary purpose of an Amateur Radio Emergency Data Network (AREDN) mesh network?

A. To provide FM repeater coverage in remote areas

B. To provide real time propagation data by monitoring amateur radio transmissions worldwide

C. To provide high-speed data services during an emergency or community event

D. To provide DX spotting reports to aid contesters and DXers

(answers: C – C – C – A – C)