



Excerpts and Sample Questions from the iNARTE

Preparation Guide for the Unlicensed Wireless Systems Installer Certification Exam

SAMPLE EXAMINATION QUESTIONS OVERVIEW

A. Sample Question Overview

The sample questions in this study guide are representative of the types of questions in the question pool used for the Unlicensed Wireless Systems Installers Certification Exams for both Engineer and Technician versions.

B. Sample Question Applicability

In this Wireless study guide the applicability of each question is designated to indicate that the Wireless exam question is appropriate for Engineers, Technicians or both Engineers and Technicians. Appropriately, the Exam for Engineer Certification will contain only questions intended for Engineers or Both, and the Technician Certification will contain questions intended for the Technician or Both.

C. Sample Question References

References are given for many questions to assist the student with self-study. Note that all references are in the public domain. (No classified or proprietary references are used.)

D. Sample Question Times

Solution times are indicated for each question in the study guide. The times are estimates by both the question originator and the Wireless Exam Committee. The Unlicensed Wireless Systems Installers Certification Exams are 4 hours.

E. Sample Question Categories

Question categories are also indicated for each question in the study guide. The following categories now exist:

- | | |
|--|--|
| A. UNLICENSED RF SYSTEM DESIGN | H. TOWER REQUIREMENTS |
| B. SYSTEM INSTALLATION | I. NETWORK SUPPORT |
| C. THEORY IN SITE SURVEY | J. SOFTWARE TROUBLESHOOTING |
| D. SITE SURVEY PRACTICES | K. RF TRANSMISSION LINE THEORY |
| E. REGULATORY REQUIREMENTS | L. SYSTEM INTEGRATION |
| F. PERFORMANCE OF RF SAFETY STUDIES | M. PERFORMANCE OF ON-SITE MODIFICATIONS |
| G. ANTENNA SYSTEMS | N. SECURITY |

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Sample Question 1).

Question:

In indoor wireless systems the transmitted signal often combines with reflected signals to corrupt the signal being detected by a receiver. What is the term used for this phenomenon?

Answers:

- a) Spatial distortion.
- b) Radio signal interference.
- c) Multipath propagation.
- d) Error reception.

Correct Answer: C

Applicability:

Engineer ___
Technician ___
Both X

Minutes required answering the question: 0.5

Reference: Wireless LAN's, page 21

Category: C

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Sample Question 12)

Question:

Which modulation technique is used by Frequency Hopping Spread Spectrum (FHSS) in its Physical Medium Dependent (PMD) sublayer?

Answers:

- a) Gaussian frequency shift keying (GFSK)
- b) Pulse Position Modulation (PPM)
- c) Complementary code keying (CCK)
- d) Differential binary phase shift keying (DBPSK)

Correct Answer: A

Applicability:

Engineer

Technician

Both

Minutes required answering the question: 2

Reference: Wireless LAN's, page 136

Category: A

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Sample Question 23).

Question:

What is the projected use of the 3 bands in the Unlicensed National Information Infrastructure (U-NII) allocation?

(L = Lower frequency band, M = Middle frequency band, and U = Upper frequency band in the answers below:)

Answers:

- a) M – short range low power devices, U – midrange devices like local area network, L – high power long range like wide area network
- b) L – short range low power devices, M – midrange devices like local area network, U – high power long range like wide area network
- c) U – short range low power devices, M – midrange devices like local area network, L – high power long range like wide area network
- d) L – short range low power devices, U – midrange devices like local area network, M – high power long range like wide area network

Correct Answer: B

Applicability:

Engineer	<input type="checkbox"/>
Technician	<input type="checkbox"/>
Both	<input checked="" type="checkbox"/>

Minutes required answering the question: 5

Reference: Making Sense of the 5-GHz regulations for unlicensed Transmitters, page 1

Category: E

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Sample Question 32)

Question:

Which of the following factors cause the insertion losses associated with a transmission line in a wireless system installation?

Answers:

- a) Matched line loss for the transmission line
- b) Reflection coefficient of the source driver
- c) Reflection coefficient of the load termination
- d) All of the above

Correct Answer: D

Applicability:

Engineer	<input type="checkbox"/>
Technician	<input type="checkbox"/>
Both	<input checked="" type="checkbox"/>

Minutes required answering the question: 4

Reference: The ARRL Handbook, Section 19, Transmission lines

Category: K

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Sample Question 43)

Question:

A Bluetooth piconet includes all **BUT** which of the following:

Answers:

- a) 1 to 8 Bluetooth active slave devices
- b) Up to 255 parked slaves
- c) 1 Master device
- d) 1 to 7 Bluetooth active slave devices

Correct Answer: A

Applicability:

Engineer	<input type="checkbox"/>
Technician	<input checked="" type="checkbox"/>
Both	<input type="checkbox"/>

Minutes required answering the question: 0.5

Reference: www.bluetooth.com

Category: A

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