



Family name:

Name:

ID:

QUESTION	a	b	c
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*All the items have been prepared thinking of the field of Industrial Electronic Equipment.
Correct answer: +1 Wrong answer: -1/3 No answer: 0*

1.- The antenna factor allows:

- a) unit transformation dBuV (antenna signal) to dBuV/m (receiver result)
- b) unit transformation dBuV/m (antenna signal) to dBuV (receiver result)
- c) unit transformation dBuA/m (antenna signal) to dBuV/m (receiver result)

2.- During the conducted noise emission test, a LISN

- a) should be used to have a constant 50- Ω line impedance throughout the whole bandwidth
- b) should be used to filter the AC line
- c) should be used to have a constant input impedance (50 Ω) at the input of the equipment under test

3.-The Aptitude criteria in an immunity tests have four possible alternatives (A, B, C, D) and define

- a) how the operation of the equipment should be after the test.
- b) how the operator of the equipment should act after the test.
- c) the maximum signal applied to the equipment under test.

4.- Once a piece of equipment is in the market, who is responsible for its correct operation (as far as EMC is concerned)?

- a) The seller
- b) The manufacturer
- c) The designer

- 5.- The emission limits are
- a) more restricted for residential environment than for industrial ones.
 - b) less restricted for residential environment than for industrial ones.
 - c) the same for residential or industrial environments.
- 6.-In a semi-anechoic chamber
- a) the floor has NO ground plane.
 - b) the floor has a ground plane.
 - c) the floor is covered with ferrites.
- 7.- The Line Impedance Stabilization Network
- a) is used to attenuate the noise signal.
 - b) is used during the immunity test to couple the noise signal with the cables.
 - c) is used to guarantee a constant AC grid impedance
- 8.- The electrostatic discharge produces:
- a) Currents of several amps during long periods of time (around 500ms).
 - b) Voltages of several kV during short periods of time (around 100ns).
 - c) High currents and voltages during long periods of time (around 500ms).
- 9.- Select the correct statement:
- a) In far field, all waves become plane waves.
 - b) In far field, all waves become electric waves.
 - c) In far field, all waves become magnetic waves.
- 10.- The electromagnetic compatibility defines the noise limits
- a) only for radiated tests.
 - b) only for immunity tests.
 - c) for both immunity and emission tests.