|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. The electrical system is generally considered to be the source of electrical energy.

|  |  |  |
| --- | --- | --- |
|   | a.  | True |
|   | b.  | False |

|  |  |
| --- | --- |
| *ANSWER:* | True |
| *POINTS:* | 1 |
| *REFERENCES:* | 250.4 General Requirements for Grounding and Bonding |
| *QUESTION TYPE:* | True / False |
| *HAS VARIABLES:* | False |
| *DATE CREATED:* | 2/12/2020 11:16 AM |
| *DATE MODIFIED:* | 2/12/2020 11:16 AM |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2. Bonding must be accomplished around conduit connections whenever the fault-current return path is suspect, as well as when specifically required by *NEC®*.

|  |  |  |
| --- | --- | --- |
|   | a.  | True |
|   | b.  | False |

|  |  |
| --- | --- |
| *ANSWER:* | True |
| *POINTS:* | 1 |
| *REFERENCES:* | 250.4 General Requirements for Grounding and Bonding |
| *QUESTION TYPE:* | True / False |
| *HAS VARIABLES:* | False |
| *DATE CREATED:* | 2/12/2020 11:16 AM |
| *DATE MODIFIED:* | 2/12/2020 11:16 AM |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3. Paint used on electrical enclosures functions as a conductor.

|  |  |  |
| --- | --- | --- |
|   | a.  | True |
|   | b.  | False |

|  |  |
| --- | --- |
| *ANSWER:* | False |
| *POINTS:* | 1 |
| *REFERENCES:* | 250.12 Clean Surfaces |
| *QUESTION TYPE:* | True / False |
| *HAS VARIABLES:* | False |
| *DATE CREATED:* | 2/12/2020 11:16 AM |
| *DATE MODIFIED:* | 2/14/2020 3:02 PM |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4. The \_\_\_\_ of an article tells us what is contained in an article.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | a.  | definitions | b.  | scope |
|   | c.  | requirements | d.  | discussion |

|  |  |
| --- | --- |
| *ANSWER:* | b |
| *POINTS:* | 1 |
| *REFERENCES:* | Introduction |
| *QUESTION TYPE:* | Multiple Choice |
| *HAS VARIABLES:* | False |
| *DATE CREATED:* | 2/12/2020 11:16 AM |
| *DATE MODIFIED:* | 2/12/2020 11:16 AM |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5. Electrical systems that are \_\_\_\_ must be connected to the earth in a way that will (1) limit the voltage imposed by lightning, line surges, or unintentional contact with higher-voltage lines and (2) stabilize the voltage of the system to the earth during normal operations.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | a.  | cycled | b.  | shunted |
|   | c.  | grounded | d.  | bonded |

|  |  |
| --- | --- |
| *ANSWER:* | c |
| *POINTS:* | 1 |
| *REFERENCES:* | 250.4 General Requirements for Grounding and Bonding |
| *QUESTION TYPE:* | Multiple Choice |
| *HAS VARIABLES:* | False |
| *DATE CREATED:* | 2/12/2020 11:16 AM |
| *DATE MODIFIED:* | 2/14/2020 3:03 PM |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6. The purpose of connecting non-current-carrying conductive materials to earth is to limit the \_\_\_\_ on these materials.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | a.  | interference | b.  | maximum amperage |
|   | c.  | resistivity | d.  | voltage to ground |

|  |  |
| --- | --- |
| *ANSWER:* | d |
| *POINTS:* | 1 |
| *REFERENCES:* | 250.4 General Requirements for Grounding and Bonding |
| *QUESTION TYPE:* | Multiple Choice |
| *HAS VARIABLES:* | False |
| *DATE CREATED:* | 2/12/2020 11:16 AM |
| *DATE MODIFIED:* | 2/14/2020 3:04 PM |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7. In its simplest form, \_\_\_\_ completes a path through which fault current can flow.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | a.  | bonding | b.  | grounding |
|   | c.  | bending | d.  | shunting |

|  |  |
| --- | --- |
| *ANSWER:* | a |
| *POINTS:* | 1 |
| *REFERENCES:* | 250.4 General Requirements for Grounding and Bonding |
| *QUESTION TYPE:* | Multiple Choice |
| *HAS VARIABLES:* | False |
| *DATE CREATED:* | 2/12/2020 11:16 AM |
| *DATE MODIFIED:* | 2/12/2020 11:16 AM |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8. \_\_\_\_ current occurs when the system neutral is grounded improperly downstream from the service equipment.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | a.  | Positive | b.  | Negative |
|   | c.  | Phased | d.  | Objectionable |

|  |  |
| --- | --- |
| *ANSWER:* | d |
| *POINTS:* | 1 |
| *REFERENCES:* | 250.6 Objectionable Current |
| *QUESTION TYPE:* | Multiple Choice |
| *HAS VARIABLES:* | False |
| *DATE CREATED:* | 2/12/2020 11:16 AM |
| *DATE MODIFIED:* | 2/12/2020 11:16 AM |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9. The *NEC®* is generally written in “\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ style,” stating how an installation must be made, rather than “performance style,” stating general goals to be achieved.

|  |  |
| --- | --- |
| *ANSWER:* | prescriptive |
| *POINTS:* | 1 |
| *REFERENCES:* | 250.4 General Requirements for Grounding and Bonding |
| *QUESTION TYPE:* | Completion |
| *HAS VARIABLES:* | False |
| *STUDENT ENTRY MODE:* | Basic |
| *DATE CREATED:* | 2/12/2020 11:16 AM |
| *DATE MODIFIED:* | 2/12/2020 11:16 AM |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10. Some manufacturers of data processing equipment refer to a conduit or branch-circuit as a(n) “\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,” because of the electrical interference or noise that travels on this path.

|  |  |
| --- | --- |
| *ANSWER:* | dirty ground |
| *POINTS:* | 1 |
| *REFERENCES:* | 250.6 Objectionable Current |
| *QUESTION TYPE:* | Completion |
| *HAS VARIABLES:* | False |
| *STUDENT ENTRY MODE:* | Basic |
| *DATE CREATED:* | 2/12/2020 11:16 AM |
| *DATE MODIFIED:* | 2/14/2020 3:04 PM |

 |