



BGR Technical  
Publications

**Sample Questions**

# 2015 Residential Electrical Inspector

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# 2015 E1 EXAM PREP

**Editon**



***Inspector Series***

***Based on the  
2015 International Residential Code***

37. Circuit conductors that are electrically joined at each end to form a single conductor must be limited to sizes \_\_\_\_\_ AWG and larger.
- A. 4/0
  - B. 2
  - C. 1/0
  - D. 4
38. Where practicable, rod, pipe and plate grounding electrodes must be embedded below \_\_\_\_\_.
- A. the meter housing
  - B. finished grade
  - C. frost level
  - D. permanent moisture level
39. Switches must not be installed within wet locations in tub or shower spaces unless installed as part of a \_\_\_\_\_ tub or shower assembly.
- A. required
  - B. double insulated, GFI protected
  - C. properly grounded and GFI protected
  - D. listed
40. You are doing a load calculation for a single family dwelling. The name plate on the dryer to be installed in the home shows that this is a high efficiency dryer that uses only 3500 VA peak power consumption. What value will you use during your calculations to allow for the dryer load?
- A. 3500 VA
  - B. 4500 VA
  - C. 5000 VA
  - D. none of these
41. Metal covers and plates must be \_\_\_\_\_.
- A. neutral
  - B. insulated
  - C. bonded
  - D. grounded

42. Where installed in raceways, conductors of size \_\_\_\_\_ AWG and larger must be stranded. Exceptions ignored,

- A. 14
- B. 12
- C. 10
- D. 8

43. A minimum of one 20-ampere branch circuit must be provided to supply the bathroom receptacle outlet(s) and these circuits

\_\_\_\_\_.

- A. may serve all the bathrooms in the dwelling
- B. may not have more than one outlet
- C. shall have no other outlets
- D. none of the above

44. A plate electrode that exposes not less than \_\_\_\_\_ square feet of surface to exterior soil must be considered as a grounding electrode.

- A. 5
- B. 4
- C. 3
- D. 2

45. All mechanical elements used to terminate a grounding electrode conductor or bonding jumper to the grounding electrodes that are not buried or \_\_\_\_\_ must be accessible.

- A. inside a wall or floor cavity
- B. inside of a raceway
- C. exposed
- D. concrete encased

46. A grounding connection must not be made to any \_\_\_\_\_ on the load side of the service disconnecting means. Exceptions ignored.

- A. neutral wire conductor
- B. grounding conduit
- C. grounded circuit conductor
- D. none of the above

47. The dimension of the working space in the direction of access to panelboards and live parts likely to require examination, adjustment, servicing or maintenance while energized must be not less than \_\_\_\_\_ inches in depth. Except as otherwise specified in the Code.

- A. 30
- B. 36
- C. 40
- D. 48

48. What is the minimum burial depth in inches for nonmetallic raceways listed for direct burial without concrete encasement or other approved raceways in underground wiring in a trench below 2-inch-thick concrete or equivalent

- A. 4
- B. 6
- C. 12
- D. 18

49. What is the Cubic Inch capacity of a 4 inch square box 1-1/2 inches deep.

- A. 15
- B. 21
- C. 25
- D. 30