

## Code – Questions #6

*Provide Codes and Table references (if applicable) to verify your answers.*

1. What is the demand load on a service conductor in a dwelling unit for a 12 kW range?
2. What is the maximum voltage drop on a branch circuit that has a nominal voltage of 240V?
3. Is it required by code to bond a meter housing?
4. What is the minimum size of system grounding conductor for a 60A service?
5. Is it permissible to direct bury electrical non-metallic tubing (ENT)?
6. What precautions must be taken when installing type NMD90 cable in proximity to heating ducts?
7. An outlet box has one bonding screw, If there are 4 equipment bond wires entering the box, what is the proper method of terminating them?
8. Which conductor of a two-wire cable, when supplying a keyless lampholder, connects to the screwshell of the lampholder?

9. Calculate the size of device box required for the following:

1- 14/3 AC90

1- 14/2 AC90

1- Wire connector

1- Pig tail

1- Flush mounted 3-way switch

10. Calculate the size of NMD90 cable, breaker and type of receptacle for a range having a rating of 14 kW and 120/240V 1Ø in a residential dwelling.

11. What size of NMC90 cable, breaker, and receptacle are required for a 6000W 120/240V 1Ø clothes dryer in a residential dwelling?

12. What is the maximum voltage permitted by code on a circuit protected by plug fuses?

13. What is the distance a panelboard may be installed above the finished floor in a dwelling unit?
14. How many split receptacles are required above a kitchen counter measuring 4 metres in length?
15. Can a water heater circuit be used to supply other equipment such as a convenience outlet as well as a hot water tank?
16. In a kitchen does the refrigerator needs its own receptacle?
17. Does the refrigerator receptacle need to be on its circuit?
18. Does a central vacuum system need its own circuit?
19. What is the maximum height for attachment of service conductors above grade level?
20. In a single phase three-wire service, which conductor shall be grounded?