Pretest Module 17 Unit 1 Single-phase Service

1. What does “Acceptable” mean?

2. What is grounding?

3. What is bonding?

4. What is an identified conductor?

5. Which section of the CEC deals with protection of persons and property?

6. How much working space is required in front of equipment with pullout drawers?

7. What is the maximum ambient temperature in rooms where heat producing electrical equipment is installed?

8. What is the difference between a type 3 and a type 3R enclosure?

9. How are sheath currents reduced in wiring systems?

10. How much current will be on the neutral conductor in a service entrance?

11. What are the three types of conduit acceptable for an underground entrance?

12. What types of wire are suitable for an underground entrance?

13. What is neutral support cable used for?

14. How long must the conductors extend out of the weatherhead for a drip loop?

15. What is the minimum height of the point of connection for a service that crosses a driveway to a residential garage?

16. What is the requirement for a service connection point around windows?

17. What are the voltage divisors in a single-phase service calculation?

18. How much voltage drop is permitted between the point of connection and the point of utilization of equipment?

19. How much voltage drop is permitted in a branch circuit or feeder?
20. Where in the CEC would you look for calculating voltage drop?

21. What is the maximum distance for a No.10 wire carrying 20 amps at 240 V for a
   3% voltage drop?

22. What size wire is required to carry 20 amps at 240 V for a distance of 100 m with
   a 3% voltage drop?

23. What percentage of time is considered a non-continuous load?

24. What percentage of the basement area of a residence is used for calculating the
   service demand?

25. What percentage of the upstairs area of a residence is used for calculating the
   service demand?

26. What is the demand wattage for the first 90 m² of a residence?

27. What is the demand wattage for the second 90 m² of a residence?

28. What is the demand wattage for a 12 000 W range?

29. Regardless of the calculation, what is the minimum size service for a residence
   with a floor area of 90 m²?

30. Regardless of the calculation, what is the minimum size service for a residence
   with a floor area of 70 m²?

31. What is the basic load (w/ m²) for a school?

32. What is the basic load (w/ m²) for a salon?

33. What are two situations where circuits of less than 50 volts are required to be
   grounded?

34. What CEC table is used to determine the size of the neutral conductor for a
   grounded system?
35. Which CEC table is used to determine the size of bonding conductor?

36. Which table in the CEC is used to determine the size of the conductor for a concrete-encased electrode?

37. How far apart must ground rod electrodes be driven?

38. How far below ground level must a plate electrode be placed?

39. How are conductors larger than No.8 AWG protected at the end of raceways?

40. What is the maximum spacing for 2” rigid-metal conduit supports?

41. What is the maximum temperature rating for PVC conduit?

42. What are three restrictions for the installation of PVC conduit?

43. Is it permissible to install ENT tubing in wood frame construction?

44. What is the minimum radius of a bend in conduit or tubing?

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