1. What material is the element of a baseboard heater made from?

2. The insulating material around a bare element for a heater must posses which two characteristics?

3. What are the three most common methods for controlling baseboard heaters?

4. What is the purpose of the gasket strip along the back of a baseboard heater?

5. What is the best place to install a baseboard heater?

6. What is the main advantage of a unit heater?

7. What are the main parts of a unit heater?

8. How are unit heaters up to 5 kW typically controlled? Over 5 kW?

9. How should multiple unit heaters be installed in a large area?

10. What is the minimum recommended distance from a wall when installing unit heaters?

11. How are line drops minimized when starting an electric furnace?

12. How are central electric heating units typically mounted?

13. What application is best suited for duct heater installation?

14. What precaution should be taken before energizing a duct heater? Why?

15. What is the difference between a duct heater and a plenum heater?

16. Which system is considered the primary heat source in a combination oil/electric system?

17. Which heating system is totally invisible?

18. Which heating system will heat objects in a room without heating the air first?

19. What precaution must observed when installing heating cable sets in concrete?
20. How are floor warming cables typically controlled?

21. What are the two most common types of heating cable sets?

22. What is the typical rating for heating cables installed in floors?

23. What is the typical rating for ceiling heating cables?

24. What is the maximum thickness of gypsum board installed over heating cable sets?

25. What are the two standard water heater sizes? (Gallons)

26. What are indirect water heaters and what is the advantage?

27. What are instantaneous water heaters and why are they not often used in residential applications?

28. What is the simple definition of a thermostat?

29. What is a line-voltage thermostat? What are the two types?

30. What is a low-voltage thermostat and what is the advantage over the line-voltage thermostat?

31. What is the advantage of electronic thermostats?

32. What is the best location for a thermostat to be installed?

33. What are the advantages of electric heat?

34. What type of building is electric heat best suited for?

35. What is the minimum overcurrent device for a circuit with two 2000 W baseboard heaters?

36. What size conductor is required for two 2000 W baseboard heaters?

37. What are the rules regarding tap conductors?

38. What function must be performed by a thermostat with a marked off position?
39. What are the five types of forced-air heating systems?

40. Where are supply registers located in a forced-air heating system?

41. Why is a heat exchanger required on a combustible fuel forced-air heating system?

42. What is the efficiency of a combustible-fuel forced-air heating system?

43. How is the blower fan controlled in a forced-air heating system?

44. How is the main gas valve de-energized in a gas forced-air heating system?

45. Will the blower fan stop when the main gas valve is de-energized and the flame is extinguished?

46. What is the purpose of the heat anticipator in a low-voltage thermostat?

47. What is a thermocouple?

48. What device is responsible for holding the safety valve in the gas line open?

49. How is the pilot flame lit?

50. What is an electronic spark generator? What is the advantage?

51. What are the most likely causes for the high-limit switch to open in a forced-air heating system?

52. Where is an electronic air filter installed in a forced-air heating system?

53. What are the main components of an electronic air filter?

54. How does an electronic air filter operate?

55. What precaution must be taken when installing an electronic air filter in a duct system?