Pretest Heat Loss Information Section

1. What is the key to heating comfort?
2. What is the definition of heat?
3. Heat travels from hot to cold at a rate that is proportional to what value? Inversely proportional to what value?
4. What is the definition of temperature?
5. What are the three methods of heat transfer? What is an advantage of each?
6. What are unitary heating systems?
7. What is a central heating system?
8. How many BTUs are produced by 1 watt?
9. How efficient are baseboard heaters?
10. What is a BTU?
11. What is the formula for calculating lost power in wire?
12. What are the four factors affecting conductor size?
13. What are two advantages of a baseboard electric heating system?
14. What are some advantages of central electric heating units?
15. What are degree-days?
16. What is design temperature?
17. What is heat transmission factor?
18. What is indoor design temperature?
19. What is outdoor design temperature?
20. What is thermal resistance factor?
21. How is the RSI factor calculated when you know the “R” factor?
22. How does outdoor temperature affect heat transmission?

23. What is the minimum recommended insulation level in ceilings below unheated attics?

24. What is the minimum recommended insulation for floors over unheated crawl spaces?

25. What happens to warm moist air as it cools?

26. What is the purpose of vapor barrier?

27. What are the three ways to control the moisture content of the air in a home?

28. How is attic insulation kept dry?

29. What are some of the problems with oversized electric heating systems?

30. How much heat will be lost through a ceiling with a HTF of .275 w/m², TD of 35, and dimensions of 2.5 m long and 1.7 m wide?

31. How much heat will be lost through an outside wall with dimensions of 3 m long and 2.5 m high with a window 1 m square? The HTF for the window is 1.3 w/m² and the HTF for the wall is .381 w/m². DTD=38°