Shock Value Network Analysis Test Answer Key

1. About 9 ohms
2. About 2 amps
3. About 45 watts
4. About 2 amps
5. About 16 volts
6. About 25 watts
7. About 1 amp
8. About 13 volts
9. About 9 watts

10.) About 3 volts

11.) About 1 amp

12.) About 1 watt

13.) About 2 amps

14.) About 4 volts

15.) About 7 watts

16.) About 0 (0.02) amps

17.) About 1 volt

18.) About 0 (0.02) watts

19.) delta-wye equations (delta symbol, pi, and pi symbol can be used in place of the word delta while the letter y, t, and tee can be used in place of wye)

20.) Wheatstone Bridge Circuit

21.) About 28 ohms

22.) About 1 amp

23.) About 14 watts

24.) About 20 volts

25.) About 4 volts

26.) About 0 (0.41) amps

27.) About 2 watts

28.) About 14 volts

29.) About 0 (0.35) amps

30.) About 5 watts

31.) About 16 volts

32.) About 1 amp

33.) About 12.22 watts

34.) Millman’s Theorem and the Superposition Theorem

35.) Thevenin’s Theorem and Norton’s Theorem

36.) About 20 volts

37.) About 0 (0.39) amps

38.) About 8 watts

39.) About 14 volts

40.) About 1 amp

41.) About 19 watts

42.) About 17 volts

43.) About 1 amp

44.) About 14 watts

45.) About 21 volts

46.) About 0 (0.21) amps

47.) About 4 watts

48.) About 10 volts

49.) About 2 amps

50.) About 20 watts

Tiebreaker questions

1. Thomas Edison and Nikola Tesla
2. Count Alessandro Volta
3. James Prescott Joule
4. Benjamin Franklin
5. Sir Charles Wheatstone