

LESSONS 2 & 3 QUESTIONS: Check RIC-7 for answers. Section of the study guide with the information required is provided.

B-005-003-006

3.7

Power is expressed in:

- 1) volts
- 2) amperes
- 3) watts
- 4) ohms

B-005-004-003

3.2

How is the resistance in a DC circuit calculated when the voltage and current are known?

- 5) Resistance equals current multiplied by voltage
- 6) Resistance equals voltage divided by current
- 7) Resistance equals power divided by voltage
- 8) Resistance equals current divided by voltage

B-005-005-011

3.4

The total current in a parallel circuit is equal to the:

- 9) source voltage divided by the value of one of the resistive elements
- 10) sum of the currents through all the parallel branches
- 11) source voltage divided by the sum of the resistive elements
- 12) current in any one of the parallel branches

B-005-003-008

3.7

Which two electrical units multiplied together give the unit “watts”?

- 13) Farads and henrys
- 14) Amperes and henrys
- 15) Volts and farads
- 16) Volts and amperes

B-005-004-003

3.2

How is the resistance in a DC circuit calculated when the voltage and current are known?

- 17) Resistance equals current multiplied by voltage
- 18) Resistance equals voltage divided by current
- 19) Resistance equals power divided by voltage
- 20) Resistance equals current divided by voltage

B-005-006-003

3.7

The DC input power of a transmitter operating at 12 volts and drawing 500 milliamps would be:

- 21) 20 watts
- 22) 6 watts
- 23) 500 watts
- 24) 12 watts

Don't forget to change all values to standard units

B-005-001-009

A1.5

How many millivolts are equivalent to two volts?

- 25) 0.000002
- 26) 2000
- 27) 2000000
- 28) 0.002

B-005-004-007

3.2

The voltage required to force a current of 4.4 amperes through a resistance of 50 ohms is:

- 29) 220 volts
- 30) 2220 volts
- 31) 22.0 volts
- 32) 0.220 volt

B-005-003-001

2.3

What is the word used to describe the rate at which electrical energy is used?

- 33) Current
- 34) Power
- 35) Voltage
- 36) Resistance

B-005-005-008

3.4

If ten resistors of equal value were wired in parallel, the total resistance would be:

- 37) $10 / R$
- 38) $R / 10$
- 39) $10 \times R$
- 40) $10 + R$

B-005-006-006

3.7

If the voltage applied to two resistors in series is doubled, how much will the total power change?

- 41) increase four times
- 42) decrease to half
- 43) double
- 44) no change

B-005-011-002

3.7

A transformer operates a 6.3 volt 2 ampere light bulb from its secondary winding. The power consumed by the primary winding is approximately:

- 45) 13 watts
- 46) 6 watts
- 47) 8 watts
- 48) 3 watts