

1. When these numbers are multiplied, $(6 \times 103) (5 \times 105)$, the result is

A.3 × 108 B.30 × 108 C.300 × 109 D.3,000 × 107

Answer: Option B

2. Resistance is measured in

A.henries B.ohms C.hertz D.watts

Answer: Option B

3. The number 65,000 expressed in scientific notation as a number between 1 and 10 times a power of ten is

A.0.65 × 104 B.6.5 × 104 C.65 × 104 D.650 × 103

Answer: Option B

4. When converting 7,000 nA to microamperes, the result is

A.0.007 μA B.0.7 μA C.700 μA D.7 μA

Answer: Option D

5. The number of kilowatts in 135 milliwatts is

A.1.35 × 10–4 kW



B.135 × 10–3 kW C.0.0135 kW D.0.00135 kW

Answer: Option A

6. The number 4.4 × 106 ohms expressed using a metric prefix is

A.4 k B.4.4 k C.4 M D.4.4 M

Answer: Option D

7. The number of microamperes in 2 milliamperes is

A.2 μA B.20 μA C.200 μA D.2,000 μA

Answer: Option D

8. The number of millivolts in 0.06 kilovolts is

A.600 V B.6,000 mV C.60,000 mV D.600,000 mV

Answer: Option C

9. Eighteen thousand watts is the same as

A.18 mW B.18 MW C.18 kW D.18 µW



Answer: Option C

10. The number $3.2 \times 10-5$ A expressed using a metric prefix is

A.32 μA B.3.3 μA C.320 mA D.3,200 mA

Answer: Option A

11. In the complex plane, the number 14 – j5 is located in the

A.first quadrant B.second quadrant C.third quadrant D.fourth quadrant

Answer: Option D

12. Point +4 on the complex plane is

A.4 units above the origin on the j axisB.4 units below the origin on the j axisC.4 units right of the origin on the real axisD.4 units left of the origin on the real axis

Answer: Option C

13. A 470 resistor and a 0.2 F capacitor are in parallel across a 2.5 kHz ac source. The admittance, Y, in rectangular form, is

A.212 B.2.12 mS + j3.14 mS C.3.14 mS + j2.12 mS D.318.3

Answer: Option B

14. A positive angle of 30° is equivalent to a negative angle of

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A.-30° B.-330° C.-60° D.-180°

Answer: Option B

15. In a series RC circuit, 12 V(rms) is measured across the resistor and 15 V(rms) is measured across the capacitor. The rms source voltage is

A.3 V B.27 V C.19.2 V D.1.9 V

Answer: Option C

16. A 6 kHz sinusoidal voltage is applied to a series RC circuit. The frequency of the voltage across the resistor is

A.0 Hz B.12 kHz C.6 kHz D.18 kHz

Answer: Option C

17. The voltages in Problem 4 are measured at a certain frequency. To make the capacitor voltage greater than the resistor voltage, the frequency

A.must be increased B.must be decreased C.is held constant D.has no effect

Answer: Option B

18. In the complex plane, the number 4 + j3 is located in the

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A.first quadrant B.second quadrant C.third quadrant D.fourth quadrant

Answer: Option A

19. When the frequency of the source voltage decreases, the impedance of a parallel RC circuit

A.increases B.decreases C.does not change D.decreases to zero

Answer: Option A

20. A 47 resistor and a capacitor with a capacitive reactance of 120 are in series across an ac source. What is the circuit impedance, Z?

A.129 B.12.9 C.167 D.73

Answer: Option A