

## QUIZ – ANSWER KEY

QUIZ NO: 115

TOPIC: ELECTRICAL ENGINEERING

DATE: 18/10/2022

1. Lamp efficiency is measured in \_\_\_\_\_ ?

- [A] Lux/watt
- [B] Candela/watt
- [C] Lumen/watt
- [D] Lumen/lux

**Answer: C**

2. The ratio of conductor voltage and the voltage across the disc nearest to the conductor multiplied by the number discs are ?

- [A] String efficiency
- [B] Disc efficiency
- [C] Insulator efficiency
- [D] Transmission line efficiency

**Answer: A**

3. If  $d\Phi$  is the luminous flux incident normally on an area  $dA$ , then Illuminance is given as \_\_\_\_\_ ?

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[A]  $d\Phi / dA$

[B]  $\Phi \times A$

[C]  $dA / d\Phi$

[D]  $d\Phi - dA$

**Answer: A**

4. The skin effect does not depend upon ?

[A] Operating voltage

[B] The diameter of the conductor

[C] Frequency

[D] The shape of the conductor

**Answer: A**

5. If an AC circuit is supplied with an active power of 500 W and reactive power 500 VAR, then the load power factor of the circuit is ?

[A] 0

[B] 1

[C] 0.5

[D]  $1/\sqrt{2}$

**Answer: D**

6. The amount of AC content present in the DC output of a rectifier is given by ?

[A] Ripple factor

[B] Peak factor

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[C] Form factor

[D] Power factor

**Answer: A**

7. A 200 V d.c machine as  $R_a = 0.5 \Omega$  and its full-load  $I_a = 20A$ . Determine the induced e.m.f when the machine acts as a motor \_\_\_\_\_ ?

[A] 190 V

[B] 200 V

[C] 210 V

[D] 215 V

**Answer: A**

8. At  $f =$  \_\_\_\_\_ R – L – C series circuit operates at unity power factor \_\_\_\_\_ ?

[A]  $1/RLC$

[B]  $1/LC$

[C]  $1/RC$

[D]  $1/2\pi\sqrt{LC}$

**Answer: D**

9. If admittance  $Y = a + jb$ , then  $a =$ ?

[A] Reactance

[B] Conductance

[C] Resistance

[D] Susceptance

**Answer: B**

10. The resistivity of a conductor depends upon ?

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- [A] Pressure
- [B] Temperature
- [C] Degree of Illumination
- [D] Shape of cross-section

**Answer: B**



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