

QUIZ – ANSWER KEY

QUIZ NO: 134

TOPIC: ELECTRICAL ENGINEERING

DATE: 14/12/2022

1. A diode rectifier with a C filter will have average output voltage _____ than that obtained by a rectifier without the C filter ?

- [A] lower than
- [B] higher than
- [C] same as
- [D] none of the mentioned

Answer: B

2. An inductor filter connected in series with a resistive load provides a ?

- [A] smoothing of the output voltage waveform
- [B] smoothing of the input voltage waveform
- [C] smoothing of the output current waveform
- [D] smoothing of the input current waveform

Answer: C

Join our social media



QUIZ – ANSWER KEY

3. The current ripple factor (CRF) is the ratio of ?

- [A] Average value/RMS value
- [B] RMS value/Average value
- [C] Average value/Maximum value
- [D] Maximum value/RMS value

Answer: B

4. In case of an L filter, the ripple current increases with ?

- [A] Increase in Load
- [B] Decrease in Load
- [C] Increase in the value of L
- [D] Ripple current never increases

Answer: B

5. In case of a C filter, if R (load resistance) is increased ?

- [A] ripple factor is reduced
- [B] ripple factor is increased
- [C] ripple factor is not affected
- [D] increases noise in the circuit

Answer: A

Join our social media



QUIZ – ANSWER KEY

6. C filters are suitable for _____ load resistances and L filters are suitable for _____ load resistances ?

- [A] low, low
- [B] high, high
- [C] high, low
- [D] low, high

Answer: C

7. An LC filter will have ripple factor value _____ (For the same value of L & C) ?

- [A] lower than that obtained by L filter but higher than that obtained by C filter
- [B] lower than that obtained by C filter but higher than that obtained by L filter
- [C] lower than that obtained by either L or C filter
- [D] higher than that obtained by either L or C filter

Answer: C

8. In a single-phase full wave rectifier _____ order harmonics are the most dominant ?

- [A] first
- [B] second
- [C] third
- [D] fourth

Answer: B

Join our social media



QUIZ – ANSWER KEY

9. A single-phase half wave voltage controller consists of ?

- [A] one SCR is parallel with one diode
- [B] one SCR is anti parallel with one diode
- [C] two SCRs in parallel
- [D] two SCRs in anti parallel

Answer: B

10. The AC voltage controllers are used in _____ applications ?

- [A] power generation
- [B] electric heating
- [C] conveyer belt motion
- [D] power transmission

Answer: B

Join our social media

