

# Introduction to Electrical and Electronics Engineering (ECD104A)

Assignment -02 : Quiz

1. There are 10 questions.
2. Each Carries 1 Mark
3. No Negative Marking
4. Quiz will be closed automatically after the designated Time Window

Name \* 

B. Jagadish

Register Number \* 

23ETCS002025

Section \* 

☒ A

☐ B

☐ C

☐ D

☐ E

Programme : B.Tech. in \_\_\_\_\_ \* 


Computer Science & Engineering


 **Will be reviewed**

In a digital circuit, which of the following scenarios would require the use of an AND gate? \*



- ☒ Turning on a light only when both switches A and B are closed
- ☐ Inverting the input signal

 **Will be reviewed**

Which of the following best describes the behavior of a P-N junction diode under forward bias? \* 

- ☒ The diode allows current to flow easily as the depletion region narrows.
- ☐ The diode operates as an open circuit regardless of the applied voltage.

 **Will be reviewed**


The core of a transformer is laminated to reduce \_\_\_\_\_ losses. \* 


- ☐ Copper
- ☒ Eddy current
- ☐ Hysteresis
- ☐ Windage

 **Will be reviewed**

The field coils (windings) of a DC generator are usually made up of \_\_\_\_\_. \* 

- ☐ Mica
- ☐ Cast Iron
- ☒ Copper
- ☐ Carbon

 **Will be reviewed**

According to the Right Hand Thumb Rule, the fingers curled around the conductor (wire) give the direction of \_\_\_\_\_. \* 


- ☐ Electric current
- ☐ Induced EMF
- ☐ Motion of conductor
- ☒ Magnetic field

 **Will be reviewed**

Which of the following statements is correct regarding P-type and N-type semiconductors?

\* 


- ☐ P-type semiconductors are created by doping silicon with elements from Group 5 of the periodic table.
- ☐ N-type semiconductors have an abundance of holes as the majority charge carriers.
- ☒ P-type semiconductors are created by doping silicon with elements from Group 3 of the periodic table.
- ☐ N-type semiconductors are created by doping silicon with elements from Group 4 of the periodic table.

 **Will be reviewed**


The peak factor of a sinusoidal signal is \_\_\_\_.\* 

- ☐ 0.637
- ☐ 0.707
- ☐ 1.11
- ☒ 1.414

 **Will be reviewed**


In Fleming's Left Hand Rule, the index finger shows the direction of \_\_\_\_.\* 


- ☐ Electric current
- ☒ Magnetic field
- ☐ Motion of conductor
- ☐ Induced EMF

 **Will be reviewed**

\_\_\_\_\_ remains the same in all elements of a series circuit.\* 

- ☐ Resistance
- ☐ Power
- ☒ Current
- ☐ Voltage

 **Will be reviewed**

Which of the following statements correctly differentiates between half-wave and full-wave rectifiers? \* 

- ☒ A full-wave rectifier utilizes both the positive and negative halves of the AC cycle, while a half-wave rectifier uses only one half.
- ☐ A half-wave rectifier converts the entire AC waveform into DC, while a full-wave rectifier converts only half of the AC waveform.



This content is created by the owner of the form. The data you submit will be sent to the form owner. Microsoft is not responsible for the privacy or security practices of its customers, including those of this form owner. Never give out your password.

**Microsoft Forms** | AI-Powered surveys, quizzes and polls [Create my own form](#)

[Privacy and cookies](#) | [Terms of use](#)