

3300015 gtu exam paper

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3300015 GTU Exam Paper: Comprehensive Q&A

The 3300015 GTU exam paper is designed to test students' knowledge and understanding of various aspects of engineering. This article provides a comprehensive Q&A guide to assist students in their preparation.

Q1: Explain the concept of voltage and current transformers.

A1: A voltage transformer (VT) steps down a higher voltage to a lower voltage, maintaining the same power. A current transformer (CT) steps down a higher current to a lower current, again maintaining the power.

Q2: Describe the working principle of a DC motor.

A2: A DC motor converts electrical energy into mechanical energy. It consists of a stationary stator with windings that create a magnetic field and a rotating armature with windings that interact with the stator field, generating torque.

Q3: Discuss the importance of circuit breakers in electrical systems.

A3: Circuit breakers are safety devices that interrupt the flow of current in an electrical circuit when it exceeds a predetermined threshold. They protect equipment and prevent electrical fires.

Q4: Explain the concept of power factor in AC circuits.

A4: Power factor is the ratio of real power (power used to do work) to apparent power (total power supplied). A low power factor indicates that a circuit is drawing more reactive power than necessary.

Q5: Describe the difference between a diode and a transistor.

A5: A diode is a two-terminal device that allows current to flow in one direction only. A transistor is a three-terminal device that can amplify or amplify a signal.

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