

4th class power engineering exam questions

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4th Class Power Engineering Exam Questions: A Comprehensive Guide

The fourth class power engineering exam is a critical milestone for individuals aspiring to work as stationary engineers. This exam tests candidates on their knowledge of power plant operations, maintenance, and safety. Here are some commonly asked questions and answers that can help you ace the exam.

1. What is the purpose of an economizer in a boiler plant?

An economizer is a device that preheats boiler feedwater using the heat from flue gas. This enhances boiler efficiency by reducing the amount of fuel required to generate steam.

2. What are the different types of steam turbines used in power plants?

There are two main types of steam turbines: condensing turbines and non-condensing turbines. Condensing turbines discharge steam to a condenser, creating a vacuum that increases the turbine's efficiency. Non-condensing turbines discharge steam at a higher pressure and are used for industrial applications, such as driving generators.

3. What is the function of a governor in a steam turbine?

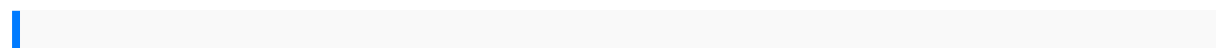
A governor regulates the speed of a steam turbine by adjusting the flow of steam to the turbine. This ensures that the turbine runs at the desired speed and maintains a stable power output.

4. What are the types of cooling systems used in power plants?

Common cooling systems in power plants include once-through cooling, open-recirculating cooling, and closed-cycle cooling. Once-through cooling uses a large body of water, such as a river or ocean, as a coolant. Open-recirculating cooling uses a cooling tower to cool the water before recirculating it back into the system. Closed-cycle cooling uses a closed loop of circulating water and a cooling tower to remove heat.

5. What are the safety precautions required for working on electrical equipment in a power plant?

Working on electrical equipment requires strict adherence to safety protocols, such as wearing insulated gloves, using insulated tools, and grounding the equipment properly. De-energizing the equipment before working on it is crucial to prevent electrical shocks.



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