

Easy

Assistant Engineer (Electrical), Class 2025

Building Department

What is the function of a cooling tower in a steam power plant?

A

To cool down the steam

B

To cool down the water from the condenser

Correct

C

To generate electricity

D

To control the pressure of the steam

Correct Answer: B

Full Detailed Explanation

Concept & Reasoning The condenser transfers heat from exhaust steam to circulating cooling water. The cooling tower then cools that warmed water mainly by evaporative heat and mass transfer. Thus the condenser and cooling tower form two distinct stages of heat rejection. **How to Solve It in the Exam** Condenser cools/condenses steam; cooling tower cools condenser water. **Important Exam Point** Track which fluid each component acts on. **Related Revision Path** This question sits in the revision path Power Plant Engineering → Steam Power Plants → Cooling System .

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