

Moderate

Assistant Engineer (Electrical), Class 2025

Building Department

According to IS 3043, the resistance of an earth connection for a large power station should be as low as possible, ideally not exceeding _____.

A

0.5

Correct

B

2.0

C

5.0

D

10.0

Correct Answer: A

Full Detailed Explanation

Concept & Reasoning Large substations/power stations use extensive earth grids to limit earth-potential rise and touch/step voltages during faults. A lower resistance is desirable because the available fault current is large and personnel/equipment safety is critical. Actual design also requires grid-potential and touch/step-voltage calculations, not resistance alone. How to Solve It in the Exam Large power station very low earth resistance, ~0.5 target in exam tables. Important Exam Point Resistance is one criterion; safe touch/step voltage is the deeper design objective. Related Revision Path This question sits in the revision path Electrical Laws, Standards and Energy Policy Indian Standards Earthing Design .

Open live question on website:

<https://sarkariresultout.com/pyq/question/gpsc-ae-electrical-q265-power-station-earth-resistance/>