

Hard

Assistant Engineer (Electrical), Class 2025

Building Department

If all the sequence voltages at the fault point in a power system are equal, then fault is _____

A

LLG fault

Correct

B

LG fault

C

Three phase to ground fault

D

Line to Line fault

Correct Answer: A

Full Detailed Explanation

Concept & Reasoning Fault type determines how sequence networks interconnect. A three-phase balanced fault uses only the positive-sequence network. A line-to-line fault uses positive and negative sequences without zero sequence. A single line-to-ground fault places the three sequence networks in series, producing equal sequence currents. For an LLG fault, the sequence networks have a parallel-type connection at the fault point, making the sequence voltages equal. How to Solve It in the Exam Equal sequence voltages → think LLG parallel sequence-network connection. Important Exam Point Memorize network interconnections, not just fault names. Related Revision Path This question sits in the revision path Power System → Fault Analysis Symmetrical Components .

Open live question on website:

<https://sarkariresultout.com/pyq/question/gpsc-ae-electrical-q202-sequence-voltages-for-fault-types/>