

Easy

Assistant Engineer (Electrical), Class 2025

Building Department

While conducting open circuit test and short circuit test on a transformer, status of low voltage and high voltage windings will be such that in _____

A

OC test h.v. open, SC test l.v. short-circuited

Correct

B

OC test l.v. open, SC test h.v. short-circuited

C

OC test l.v. open, SC test l.v. short-circuited

D

OC test h.v. open, SC test h.v. short-circuited

Correct Answer: A

Full Detailed Explanation

Concept & Reasoning The OC test needs rated voltage but only a small no-load current. Supplying the LV winding is convenient and safer for instruments, while the HV winding is left open. The SC test needs only a small fraction of rated voltage but full-load current. The LV winding is commonly shorted and the reduced test voltage is applied to the HV winding so that the current on the HV side is smaller and easier to measure. The exact side chosen can be changed in practice, but the standard exam convention is the one stated in option A. How to Solve It in the Exam OC: open HV. SC: short LV (standard laboratory convention). Important Exam Point Focus on why instruments are conveniently connected to the chosen side. Related Revision Path This question sits in the revision path Electrical Machines Transformers OC and SC Tests .

Open live question on website:

<https://sarkariresultout.com/pyq/question/gpsc-ae-electrical-q136-test-connections/>