

Moderate

Assistant Engineer (Electrical), Class 2025

Building Department

Evaluate the surface integral $\oint_S (3x \mathbf{i} + 2y \mathbf{j}) \cdot d\mathbf{S}$, where S is the sphere given by $x^2 + y^2 + z^2 = 9$.

A

120

B

180

Correct

C

240

D

300

Correct Answer: B**Full Detailed Explanation**

Open the live question URL below to read the full explanation, related links and practice flow.

Open live question on website:<https://sarkariresultout.com/pyq/gu/question/gpsc-ae-electrical-q143-flux-through-a-closed-sphere/>