

Worksheet - 11

Course Name: Math-III (Section - B)

Total marks = 3

Date: 28/11/2024

Question - Use the Divergence Theorem to find the outward flux of

$F = x^2i + y^2j + z^2k$ across the boundary of the region

D : The region cut from the solid cylinder $x^2 + y^2 \leq 4$ by the planes $z = 0$ and $z = 1$.