

DSS-I (CEPC 205)

Test-II

MM: 15

Time: 50 mins

Roll. No. 124101075

Dated: 11.11.2025

Note: Use of IS 800:2007 and Steel tables is allowed. Assume any missing data appropriately and mention it clearly.

Q1. Design a battened column 6 m long to carry an axial load of 1000 kN. The column is restrained in position and direction at both ends. The column consists of two channels placed back-to-back. Also, design the slab base for the column. The grade of the Steel is Fe-415.

(15)