

July 2023 CSE 206

Offline Assignment on K-Maps

Deadline: Sunday, 10th December, 2023, 11:55 PM

Simplify the following functions into a minimal SOP form using K-maps. Implement them in a simulator using ICs corresponding to inverters and 2/3-input AND/OR gates.

1. $f(A, B, C, D) = \Sigma(1, 4, 10, 11) + \Pi(0, 2, 3, 5, 8, 14, 15)$
2. $f(A, B, C, D, E) = \Sigma(4, 5, 17, 19, 25, 27) + \Pi(3, 6, 12, 13, 16, 18, 24, 26, 30, 31)$

Submission Guideline

Create a directory with your 7 digit student id as its name. Put the circuit files and a scanned PDF of your handwritten simplification into the directory created in step 1. Zip the directory (compress in .zip format; .rar, .7z or any other format is not acceptable), and upload the .zip file on MOODLE.