DIGITAL DESIGN & COMPUTER ARCHITECTURE (23EC1202)

Home Assignment - CO-1

Instructions:

1. Students are required to record their Home Assignment activities on A4 paper or backside of their class notebooks.
2. Each CO consists of 2 home assignment questions.
3. Each Home Assignment is evaluated for 25 marks.
4. We kindly request that faculty members take on the responsibility of evaluating students HA in their respective notebooks or on A4 paper and then promptly notifying the students to upload the soft copies (PDF File) of these assessments into the LMS system.
5. Please make sure to complete these tasks on time and follow the guidelines provided above.

CO_I: (Last Date of Submission is 03.02.2025)

1. Optimize the 4 variable function F (W, X, Y, Z) = ∑m (1,3,7,11,15) + d (0,2,5) using K-Maps and realize the minimized expression using logic gates.
2. Design the following Boolean function using PROM, PAL & PLA.

   A (X, Y, Z) = ∑m (3,5,6,7)