Department of Electrical Engineering
Sessional Assignment
Course Details

Course Title: Digital Logic Design (BTech) **Module:** _____

Student Details

Name: _____ **Student ID:** _____

Q1: Solve the below given Boolean Expressions:

A. $\overline{A}B\overline{C}\,D + \overline{A}BCD + ABD$

B. $AB + \overline{A\overline{C}} + A\overline{B}\,C\,(AB + C)$

Q2 (A): Reduce the following function using K-map technique:

$f\,(A, B, C, D) = \sum m\,(0, 1, 4, 8, 9, 10)$

(B): Minimize the following expression in POS form:

$$Y = (\overline{A} + \overline{B} + C + D)(\overline{A} + \overline{B} + \overline{C} + D)(\overline{A} + \overline{B} + \overline{C} + \overline{D})(\overline{A} + B + C + D)$$
