5. Write the minimized DNF (disjunctive normal form) for the logical function.

Karnaugh map:

Answ. $X_1 \cdot X_3 + X_2 \cdot X_3 \cdot X_4 + \overline{X_1} \cdot \overline{X_2} \cdot X_3$

Answ. $X_1 \wedge X_3 \vee X_2 \wedge X_3 \wedge X_4 \vee X_1 \wedge X_2 \wedge X_3$