

1. Simplified form of the Boolean function $F(P, Q, R, S) = \overline{P} \overline{Q} + \overline{P}QS + PQ\overline{R}\overline{S} + P\overline{Q}R\overline{S}$. is

(a) $\overline{P}S + \overline{Q}\overline{S}$

(b) $\overline{P}\overline{Q} + \overline{Q}\overline{S}$

(c) $\overline{P}Q + R\overline{S}$

(d) $P\overline{S} + Q\overline{R}$