GATE

November 22, 2023

Questions

- 1. Q, R, S are Boolean variables \oplus and is the XOR operator. Select the CORRECT option(s).
 - (a) $(Q \oplus R) \oplus S = Q \oplus (R \oplus S)$
 - (b) $(Q \oplus R) \oplus S = 0$ when any of the Boolean variables (Q, R, S) are 0 and the third variable is 1
 - (c) $(Q \oplus R) \oplus S = 1$ when Q = R = S = 1
 - (d) $((Q \oplus R) \oplus (R \oplus S)) \oplus (Q \oplus S) = 1$