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## Q1 Answer.

## I, For 10db case;

Return loss  $10\log(100/Pr) = 10dB$ , (Pr) Power reflected back is 10W Power radiated by the Antenna is (100-10) = 90W

## II, For 3db case;

Return loss 10log(100/Pr) = 3dB, (Pr) Power reflected back is 50W Power radiated by the Antenna is (100-50) = 50W

# III, For 7db case;

Return loss  $10\log(100/Pr) = 7dB$ , (Pr) Power reflected back is 20W Power radiated by the Antenna is (100-20) = 80W