

Q.2 Set. (B) Determine the received signal power at distances 3 Km and 5 Km using exact two ray ground reflection model and compare with approximate model under valid assumptions. Assume the following parameters

- i Power measured at reference distance $d_0 = 1$ Km is $1 \mu\text{W}$.
- ii $f = 1800$ MHz, $h_t = 40$ m, $h_r = 3$ m, and $G_t = G_r = 3$ dBi.