Q.2 Set. (A) 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 paramters

  i Power measured at reference distance $d_0 = 1$ Km is 1 μW.

  ii $f = 1800$ MHz, $h_t = 40$ m, $h_r = 3$ m, and $G_t = G_r = 0$ dBi.

[7]