Post Session work:

a) Show that for a p+n junction, where the n-type doping goes as $N_d(x) = x^m$, a plot of log C versus log Vr is a straight line with slope – (m+2).

b) For the B-C and B-E junctions, check whether the junction is abrupt or linearly doped [(1/C2) versus Vr or (1/C3) versus r is a straight line]. Else use the result of (a) to find how the doping varies (i.e. find the value of m).

c) Can you find the value of doping? How?