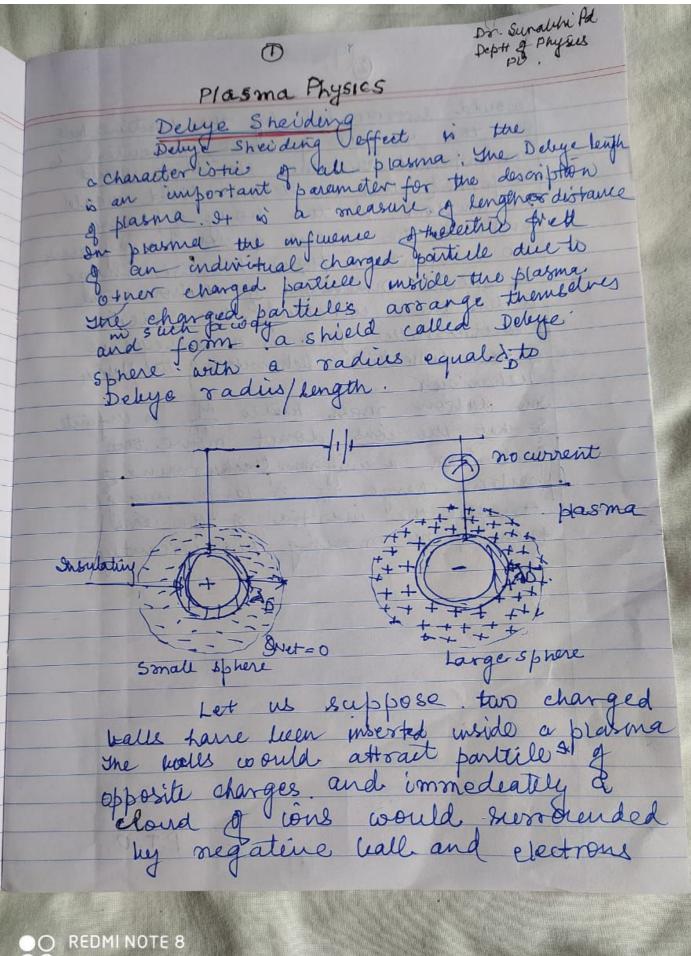
Plasma Physics

MSc. Physics Semester 2

Paper - MPHY CC6

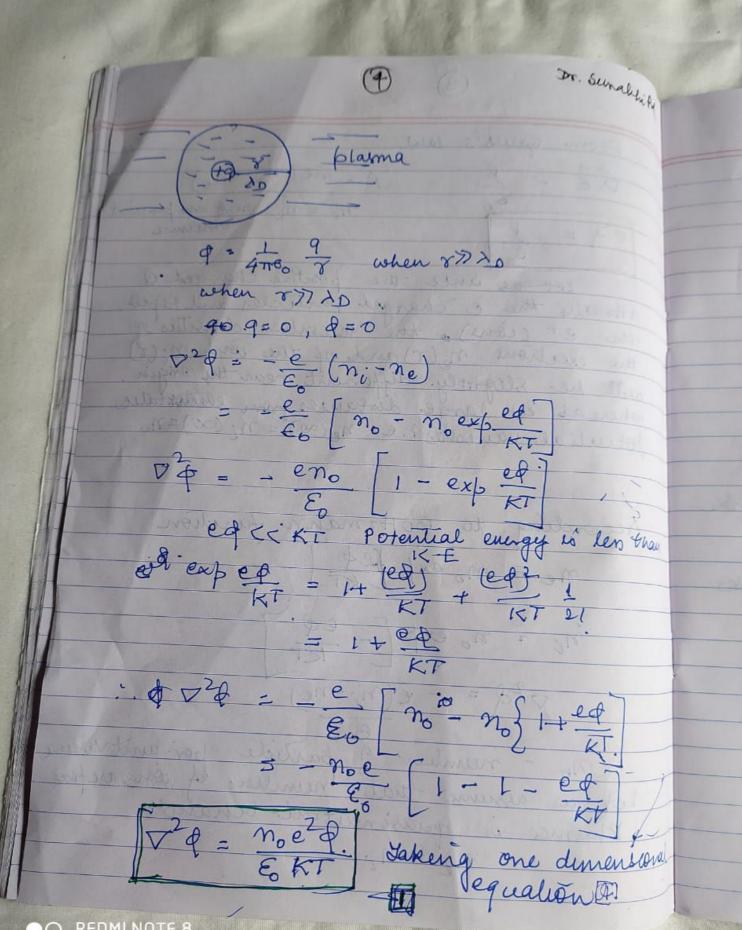
Unit 5

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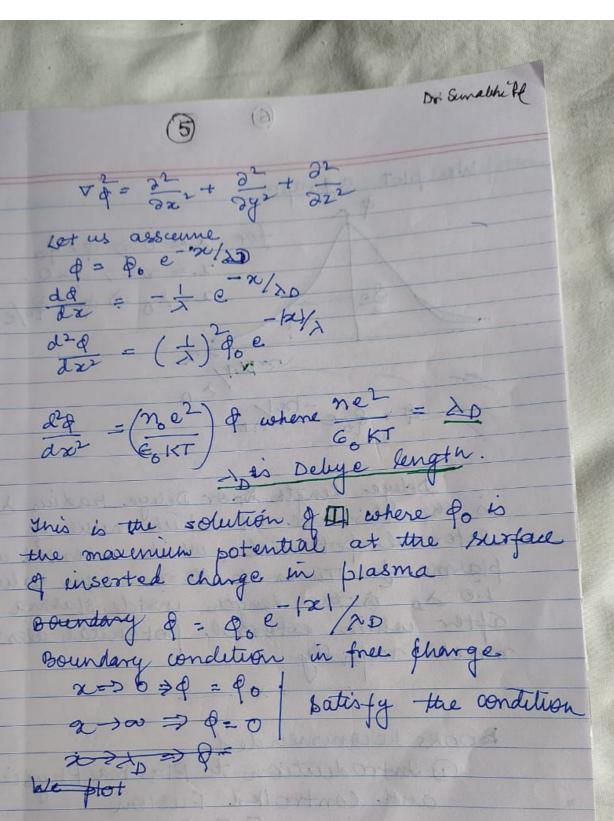


on the surface of balls, potential, maintained then the shilling would he formed and no electric field coonly ortside the surface of cloud In planne no current is flow because Change is shield. Dimension of cleation cloud is her than ion cloud . The shield gélutrostatu fiels is a consequence of the collective behavior of the plasmy Son detron mass houter on is cufante So that the cous donot move took but form a uniform, background of positive charge in is large enough therefore the inertia of the const them from moving significantly

3 From Gaus's law. P=ne(ni-ne) n: = ne not ions par unt Let us since the positive changed . I attracts the e-charged particles and repett the et (cons), the number densities? the elections ne(r) and of the cions n: (r well he slightly different near the origin whereas et large distances from electostalic potential vanishes i.e. ne(20) = n: (00) = no According to BOHzmann function ne = no exp fet ni: no exp [ - ed; 02d = - e(n;-ne) 1 no - neumber of particle per unit volume. . Plasma is quasineutral behaviour O REDMINOTE 8 9 = n. CO AI QUAD CAMERA



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