Edwy 3 RUBRIC A gap should be there otherwise A.D → ω> Axis label absent: -1 w= wp label absent? -1 A gap should be there otherwise -1: Er(w)=1 line is about:-1 (Some may draw a symmetric grap for w <0 also: A2) (a) Polarization along x-axis (b) Trowelling along z-direction (c) $\omega = 5 \times 10^6$ $c = 3 \times 10^8$ $C = 3 \times 10^8$ $R = \frac{10}{C} = \frac{5}{3} \times 10^{-2} = 0.0167 \text{ m}^{-1}$ No part marking $(d) \lambda = \frac{2\pi}{k}$ $= \frac{2\pi}{\frac{5}{3}} = \frac{120}{5} = 120\pi = 376.8 \text{ m}$ A-3) For an inhomogeneous medium, E = E(x,y,z) Gauss Law 18. D= Pfree D= EE = Free D= EE = Free Using the identity of a product of a scalar and vector field:

Vector field:

7.(EE) = E(P.E) + E. PE (1.5)

H correct till J. Stree = E(J. E) + E. JE Here.