[Assignment No-03 for ECE-6th & 4th sem students.] [Sub: EMFT]

24/03/20

Qu: 1) what is the difference between Rectangular, cylendrical and spherical co-ordinate system.? why we do such analysis?

	[A]	[B]	[C]
2). define	a) Point	a) Point charge	a) Point charge density
	b) Line	b) line charge	b) Line charge density
	c) Surface	c) surface charge	c) surface charge density
	d) Volume	d) Volume charge	d) Volume charge density

3) What is. electric field, electric flux, electric flux density. and also explain their relation with gauss's law. [with thir units]

4). How do you define electric dipole.? can a dipole is considered as a line charge., if not then how you implement the electric dipole analysis?, [SAME ANALYSIS IS IMPLEMENTED IN LINE, SURFACE, CYLENDER]

5). what is the change in angle in cylendrical and spherical co-ordinate system., like changes in length we define in cart/rect. system

as $x - dx - \Delta x - \frac{\partial}{\partial x} - \frac{\partial D}{\partial x}$

$y - dy - \Delta y - \frac{\partial}{\partial y} - \frac{\partial D}{\partial y}$

$z - dz - \Delta z - \frac{\partial}{\partial y} - \frac{\partial D}{\partial y}$

6) what is the defination of gradient, Divergence and curl of the system.

7) as define a) Open loop integration
b) close loop integration

8) Analyze the word Intensity and Density.

24/03/20