

[Assignment No 1 for ECE 6th & 4th SEM Students]

Arind  
20/03/20

Ques 1:- Write the process and derivation of cartesian, spherical and cylindrical co-ordinate system. [Write in your words explained in class]

- 2) What is scalar & vector field analysis. Please explain with example.
- 3) What is unit vector? and its importance.
- 4) How to identify whether vectors are  $\perp$  or  $\parallel$  to each other.
- 5) Write vector triple product and scalar triple product.
- 6) What trick has been discussed in the class for addition and subtraction of vectors.

7) Given three points in cartesian co-ordinate system as -

$$A(0, 0, 1), B(2, -3, 5), C(1, 2, 7)$$

find i) the vector from A to C

ii) Unit vector from B to A

iii) distance from B to C

iv) vector from A to the mid point of straight line joining B to C.

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[Please submit the assignments in A-4 sheets not in lining

copy.] Arind

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