H. W for Class - 12A

Date - 15/5/2020

Physics

1- How do you find the electric potential energy of three charges?

- 2- How do you calculate electric potential energy?
- 3-Where does electric potential equal zero?
- 4-Can electric potential be zero if electric field is not zero?
- 5-Why is electric potential energy negative?
- 6-A) Electric potential at any point x, y, z in the space is given V=4x2-3x

Question 1

Find the electric field at any point (x, y, z)

- (a) (8x 3)i
- (b) -(8x 3)i
- (c) -8xi
- (d) 8xi

7- If I placed an second uniformly charge shell (Q) at radius R'>R, will the value of potential change at r<R

- a. increases
- b. decreases
- c. constant
- d. none of the above

Maths

- (1) Solve questions number 11,12,13 exercise 3.2
- (2) Solve example number 20 on page number 83
- (3) What is the Symmetric and Skew Symmetric matrix.
- (4) Solve 2 questions related to Symmetric and Skew Symmetric matrix
- (5) Solve 2 questions based on permutations