H. W for class - 12A Date - 18/5/2020

Physics

- 1- What is electrostatic Shielding?
- 2- A capacitor is connected to a battery. If we move its plates further apart, work will be done against the electrostatic attraction between the plates. What will be the effect on the energy of the capacitor?
- 3- Two statements

Statement I: A small metallic sphere is placed at the center of a large charged spherical shell and two are the connected by a wire. The charge will not flow from outer sphere to inner sphere

Statement II: A charged conductor is placed inside the hollow conductor and two are connected by the wire. The whole charge will flow on the outer surface of the outer conductor

- (a) Both the statement I and II are correct
- (b) Statement I is correct only
- (c) Statement II is correct only
- (d) Both the statement is true
- 4- Superposition principle can not be applied to these quantities in electrostatics
- (a) Electrostatic energy
- (b) Electric Field
- (c) Electric Potential
- (d) Electric force

Maths

- (1) Solve questions number 7,8,9 exercise 3.4
- (2) Solve example number 27 on page number 98.
- (3) Solve questions number 3,4,5 miscellaneous exercise 3.
- (4) Solve any two questions based on Determinant of one and two order.
- (5) Write the sample space when a die is thrown two times.