H. W for Class 12th B

Date - 22/5/2020

## Physics

1- How does the force between two point charges change if the dielectric constant of the medium in which they are kept increases?

2- Two point charges of unknown magnitude and sign are placed at distance d apart. The electric field intensity is zero at a point, not between the charges but on the line joining them . Write two essential condition for this to happen?

3- Show that no electric field exist inside of hollow charged conductor.

4- What are the properties of electrostatic line of force?

5- Sketch the electric line of force for two positive charge Q1 and Q2 where Q1 is greater than Q2 separated by a distance d.

6- Prove that the energy stored in a parallel plate capacitor is is  $1/2 \text{ CV}^2$ .

## Biology

Q.1 Where is acrosome present in humans? Write its function.

Q.2. Name the embryonic stage that gets implanted in the uterine wall of a human

female.

Q.3. Both vaccine and colostrum produce immunity. Name type of immunity

produced by these.

4: Explain the role of pituitary and the ovarian hormones in menstrual cycle in human females.

5 -What are the various male accessory glands? Give their function.

6: Mention the name and role of hormones which are involved in regulation of gamete formation in human male.