Physics

1- Two tiny sphere each of mass M and charges + q and minus Q respectively are connected by a massless rod of length L. They are placed in a uniform electric field at an angle Φ with the electric field $\Phi \sim 0$. Calculate the minimum time in which the system align itself parallel to the electric field?

2- Electric dipole is placed in a non uniform electric field. Is there a net force on it?

3- If electric field equals zero at a given point ,must potential equal zero for that.

4- If you know electric field at a given point can you calculate potential at that point ?if not, what further information do you need.

Biology

Que1: Explain the T.S of mature dithecous anther lobe with a neat labelled diagram.

Que2: Explain the process of

microsporogenesis (or) Explain the development of male gametophyte (pollen grain) in flowering plants.

Que3: Explain the development and structure of male gametophyte or pollen grain or microspore.

Que4: Describe the structure of an anatropous ovule or megasporangium with a neat labelled diagram.