Kage-1 Tender Heart High School, Chandig Party Date 14.10-24 brack: Physica Class-PL Jeacher: Nimita L-40 Topic: D. ble Machines lim Good Morning students! This lesson is of class-TI the subject of Physics, Chapter -4 Sim Machines, of your textbook Concise Physi Solina Publications. It is being subn to you on 14 Octobe class, we studied about Inf the last functions of machine. Today, we will tudy about levery and its types. Prinkiple of a lever elfort army cload arm A Fulcum Ellort × Ellort air Load x Load Mechanical advantage M.A = uper of hevers. load and Fulcrum is in between effort autin

Page 2 Date ..!.... ann Load between m th elcrum 11/1/1/1/11 Load Salarum ort bet ween the laum Abad three the tweer Distinction between the three classes of levers **CLASS III** CLASS II CLASS I 1. It has the effort between the 1. It has the load between the 1. It has the fulcrum between fulcrum and the load. fulcrum and the effort. the load and the effort. 2. The effort arm is always 2. The effort arm is always 2. The effort arm can be shorter, longer than the load arm. shorter than the load arm. equal to or longer than the load arm. 3. The mechanical advantage is 3. The mechanical advantage is 3. The mechanical advantage always less than 1. always greater than 1. can be less than, equal to or greater than 1. 4. The load and the effort are in 4. The load and the effort are in 4. The load and the effort both opposite directions. opposite directions. are in the same direction. 4 ending todays *lopic* am Las