

# Assignment 1

**Problem 1** Calculate the diameter of a diamond pin placed at  $45 \pm 0.15$  distance from a plane surface if the locating hole in the work-piece  $D$  is  $55.55/55.596$  and engagement width  $W$  of the pin is 2

**Problem 2:** Determine the angular accuracy of a diamond pin with 4 mm land is used for locating axis of  $2\phi 32H7$  holes and centre distance between the holes is  $200\pm 0.2$  as shown in figure.

