

Q1/ Average attitude of first limb of an anticline fold is **338/49 SW**, while of the second limb of the same anticline is **140/64**. By using stereographic projection find:
(65 marks)

- 1- Interlimb angle and folding angle of the fold.**
- 2- Orientation of hinge line.**
- 3- Attitude of Axial surface.**
- 4- Pitch angle of hinge line within axial surface.**
- 5- Are the fold plunged or not? Why?**
- 6- Is the fold symmetrical or asymmetrical? Why?**
- 7- Q. I/ True dip of a fault is 046/24. Find by stereographic method**
- 8- apparent dip amount in the given directions. (25m)**
- 9-**

10-(S29E/42) and (S41W/26) are two apparent dips measured from a fault surface. This fault intersects with a joint (N69W/62). Find:

- 11-True dip of the fault. (18m)**
- 12-Attitude of the intersection line. (12m)**
- 13-Angle between the fault and joint. (10m)**
- 14-Pitch (Rake) angle of intersection line in the fault.**
- 15-True dip (angle & direction) and strike of fault surface.**
- 16-Apparent dip angle in direction (050) and (172).**
- 17-Attitude of striation.**
- 18-Write steps for finding apparent dip amount in Rockwork software.**