
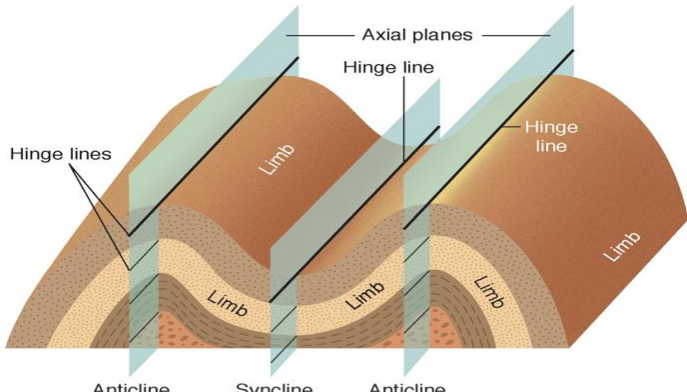


Name:			
Enrolment No:			
<div><div>UPES</div><div>End Semester Examination, May 2025</div><div><div>Course: Introduction to Structural Geology</div><div>Program: B.Sc. Mathematics</div><div>Course Code: PEGS 2045</div></div><div><div>Semester: IV</div><div>Time : 03 hrs.</div><div>Max. Marks: 100</div></div></div>			
Instructions: Answer all Questions.			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Define the term ‘Rake’ and ‘Heave’	4	CO1
Q 2	Distinguish between Hanging wall and footwall	4	CO2
Q 3	Distinguish between apparent dip and true dip	4	CO2
Q 4	Describe axial plane of a fold	4	CO1
Q 5	Describe the Exfoliation joints	4	CO2
SECTION B (4Qx10M= 40 Marks)			
Q 6	Explain the Ramsay classification of fold	10	CO2
Q 7	Explain the term associated with fault. Explain the types of movements along faults and enumerate the criteria for recognizing faults in the field	10	CO3
Q 8	Explain the genetic classification of lineation	10	CO3
Q 9	Explain the morphology of fold structure and explain the components of fold from give diagram	10	CO3



	<p style="text-align: center;">OR</p> <p>Construct a rose diagram for bedding planes of given dip direction of 12°, 23°, 29°, 56°, 68°, 90°, 102°, 119°, 134°, 156°, 178°, 198°, 245°, 336°, 340° considering an interval of 30°.</p>		
<p style="text-align: center;">SECTION-C (2Qx20M=40 Marks)</p>			
Q 10	Evaluate the steps of finding the attitude of fold axis, orientation of axial plane and interlimb angle of a fold on stereonet. Take a representational attitude of limbs.	20	CO4
Q 11	<p>Evaluate the effect of deformation of rock body due to stress applied using Flinn diagram. Discuss the L, S and LS-tectonics fabric because of deformation</p> <p style="text-align: center;">OR</p> <p>Evaluate the effect of topography on structural features and Importance representative factors of the map.</p>	20	CO4