

Name:			
Enrolment No:			
UPES End Semester Examination, December 2023			
Course:	Structural Geology	Semester: III	
Program:	BSc Geology	Time : 03 hrs.	
Course Code:	PEGS2037	Max. Marks: 100	
Instructions: Attempt all the Questions. There is a choice in question no 9, 10 and 11			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q1	Draw a structure of the class 3 fold	4	CO1
Q2	A formation has true dip of 1:5 due E determines the amount of apparent dip due N50°E also find out the direction along which the amount of apparent dip will lie 1:10	4	CO2
Q3	Distinguished between dip isogons and orthogonal thickness	4	CO1
Q4	Discuss the concept of negative and positive flower structures	4	CO1
Q5	Differentiate between forearc and back-arc basin	4	CO2
SECTION B (4Qx10M= 40 Marks)			
Q6	Describe the landform associated with folded mountains	10	CO2
S7	Explain the criteria for identification of fault in the field	10	CO3
Q8	Differentiate between Fluty and Ramsay classification of folds	10	CO3
Q9	Define Brittle and ductile deformation with a suitable diagram OR Explain the following in the context of plate tectonics a. Convection current b. Sea floor spreading	10	CO3
SECTION-C(2Qx20M=40 Marks)			
Q10	Elaborate the Mesozoic and tertiary Succession of the Himalayas OR Interpret Wegener's theory of continental drift and give evidence to support the theory.	20	CO4
Q11	Comment on the formation of the Himalayan geological structures in detail OR Elaborate the geometry of different fault patterns and explain Anderson's classification of fault with a suitable diagram	20	CO4