	(c)	and sedimentary layer is called	
	(d)	Value of apparent dip along	
2.	Defi	ine any three of the following:	1×3=3
	(a)	Stretch	
	(b)	Dilation	
	(c)	Plane strain	
	(d)	Pure shear	A state of
3.		e short notes on any three	of the 3×3=9
		wing: Deviatoric stress	
		L-S tectonite	, limit
		Hooke's law and proportionality	/ mme
	(d)	Scale of geological structure	5.4-
4.		e about the elements of a cture with suitable diagram.	folded 7
5.		e descriptive notes on any <i>two</i> wing :	o of the 7×2=14
	(a)	Joints and rock cleavage	
	(b)	Geometric classification of fold	
		Types of unconformities)a (d)
	(d)		
ים ר	1276		Continued)

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(Tectonics and Geodynamics)

(Marks: 17)

6.	Fill in the blanks (any two): $1 \times 2 = 2$						
	(a)	(a) Major fault that marks the southern edge of Meghalaya plateau is known as					
	(b)	Failure arm of triple junction rifting is called as					
	(c)	Depth of challenger deep is m below sea level.					
7.	Write short notes on any two of the following: $3\frac{1}{2} \times 2 = 7$						
	(a)	Association of volcanic belts with plate boundaries					
	(b)	Association of transformed faults with divergent plate boundaries					
	(c)	Differences between island arc and volcanic arc systems					
8.	How	do plate tectonics control the					

landforms? What is the structural setup of NE India? Write the major physiographic subdivisions of Indian subcontinent. 3+3+2=8

2 SEM TDC GEOH (CBCS) C 4

2022

(June/July)

GEOLOGY

(Core)

Paper: C-4

(Structural Geology and Tectonics and Geodynamics)

Full Marks: 53
Pass Marks: 21

Time: 3 hours

The figures in the margin indicate full marks for the questions

(Structural Geology)

(Marks: 36)

1.	Fill	in	the	blanks	(any	three)	:	1×3=3
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- (a) A fold with interlimb angle of 53° is a ____ fold.
- (b) State of stress at a point is ____ order tensor.