3 SEM TDC GEO M 1

2018

attuct (November) of supply

GEOLOGY

Major)

Course: 301

(Structure and Tectonics)

Full Marks: 48
Pass Marks: 19/14

Time : 2 hours

The figures in the margin indicate full marks for the questions

(Structural Geology)

(Marks : 30)

1. What is fold? Describe the structural elements of folded surface. Write about the morphological classification of fold. 1+4+4=9

2.	Writ	e notes on any <i>two</i> of the following: $4\frac{1}{2} \times 2 =$	ig: 4½×2=9	
	(a)	Joints and their classification		
	(b)	Criteria for recognition of faults		
	(c)	Stress and its types		
3.	eler	at is a fault? Show the structural nents of fault with diagrams. Write on the metric classification of faults.	=9	
4.	(a)	Draw an angular unconformity.	1	
	(b)	Define Hooke's law.	1	
	(c)	Choose the correct answer:	1	
		Fault is a diastrophic/non-diastrophic structure.		
		(Tectonics)		
		(Marks : 18)		
5		rite about the broad structural framework North-East India.	8	
		Or		
	W	rite about the concept of plate tectonics.	8	

6.	Writ	te on any <i>two</i> of the following: 4×2	=8
	(a)	Volcanic and earthquake belt	
	(b)	Island arc	
	(c)	Deep sea trenches and mid-oceanic ridge	
7.	(a)	Fill in the blanks: Himalaya is situated between and tectonic plate.	1
	(b)	What is triple junction?	1
