3 SEM TDC GEO M 1

2017

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(November)

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)

- What is an unconformity? Describe about different types of unconformities. How can it be recognised in the field? 1+4+4=9
- 2. Write notes on any two of the following:

41/2×2=9

(a) Diastrophic and non-diastrophic structure

8P/259

(Turn Over)

	TASE		
	M. 2501	Geometric, kinematic and dynamic aspects of structural geology	
	(c)	Genetic classification of fault	
3.	joints	What is joint? Describe about the origin of oints in rocks. Write the classification of oints. 1+4+4=9 Or	
	Weite	e about the relation among the	
		wing: $4\frac{1}{2} \times 2 = 9$	
	(a)	Joints with major structures	
	(b)	Foliation and lineation with fold	
4.	(a)	Draw an anti-formal syncline.	
	(b)	Which of the following indicates top and bottom of beds?	
	Agent	(i) Graded bedding	
		(ii) Ripple mark	
		(iii) Current bedding	
		(iv) All of the above	
		(Choose the correct answer) 1	
	(c)	Morphological classification of fold is based on the variation of of a fold.	
		(i) angles of limbs	
		(ii) position of fold axis	
		(iii) orthogonal thickness	
		(Choose the correct answer) 1	
		in the second se	
8P/2	259	(Continued)	

(Tectonics)

(Marks: 18)

5. Write about the plate boundaries and their characteristics.

8

Or

Describe the tectonic framework of India with respect to the physiographic divisions.

- 6. Write on any two of the following: 4×2=8
 - (a) Island arc
 - (b) Earthquake and volcanic belt
 - (c) Dauki Tear Fault and Disang thrust
- 7. Answer the following :

1×2=2

- (a) Which river of Assam is believed to flow along Jorhat fault?
- (b) Name the fault which separates the Assam shelf from Naga hills.
