3 SEM TDC GEO M 1

2019

(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)

 Define unconformity. Write about different types of unconformity with neat diagrams. Explain different stages in the formation of an unconformity.
 1+3+5=9

EX.	T. STORY	SEE MINA A ANNUAL OF THE SEE SEE SEE SEE SEE SEE SEE SEE SEE S
2.	Write notes on any two of the following:	
		4½×2=9
	(a)	Classification of folds based on dip
		isogons and and a second a sec
	(b)	Definition and resolution of forces
	(c)	Refolded folds and fold interference patterns
	(d)	Diastrophic and non-diastrophic structures
_	D. C	worth fault Write about mounting
3.	Defi	ne wrench fault. Write about genetic sification of faults. What are horsts and
		pens? 1+5+3=9
	Bruc	Or Or
THE .	Write in brief about any two of the following:	
	WIII	4½×2=9
	(a)	Drag folds
	(b)	Joints and its types
	100	
	(c)	Stress ellipsoid and strain ellipsoid
4.	Fill in the blanks: 1×3=3	
	(a)	The time interval not represented in an
		unconformity is called a
	(b)	The Rake is the angle made by a line on
		an inclined surface with respect to the
		(vertical/horizontal)
	(c)	A fold which closes sideways is called

(Tectonics)

(Marks: 18.)

5. Write about different types of plate boundaries with suitable diagrams.

Or

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

- **6.** Write on any two of the following: $4 \times 2 = 8$
 - (a) Plate tectonic theory
 - (b) Triple junction
 - (c) Deep-sea trenches and mid-oceanic ridges
- 7. (a) Fill in the blank:

 The imbricately faulted mountain belt of NE India is called _____.
 - (b) What is an island arc?

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