# 2013

1st Semester)

### **GEOLOGY**

FIRST PAPER

(General and Structural Geology)

( PART : A—OBJECTIVE )

( Marks: 20 )

The figures in the margin indicate full marks for the questions

SECTION-A

( Marks: 5)

- **1.** Choose the correct answer and put its number within the brackets provided :  $1 \times 5 = 5$ 
  - (a) Palaeontology is the study of
    - (i) rocks
    - (ii) minerals
    - (iii) crystals
    - (tv) fossils

(b)		atmospheric ace is	layer,	nearest	to the	earth
	(i)	troposphere				
	(ii)	stratosphere				
8	(iii)	ionosphere				
10 - 10 E	(iv)	exosphere			ĺ	Terrescond .
(c)	The	seismic wave	that car	nnot trav	el in liqu	ıids is
	(i)				•	
	(ii)	L				
	(iii)	S				
	(iυ)	None of the a	bove			]

(d)	The bed	instrument used to determine the dip of a is					
	(i)	clinometer					
	(ii)	Brunton compass					
		Polar compass					
ę.	(iv)	All of the above					
(e)	The limbs of a fold dip away from each other in						
	(i)	anticline					
	(ii)	syncline					
	(iii)	monocline					
	(iv)	None of the above					

# SECTION-B

(Marks: 15)

- 2. Write short notes on the following in not more than 3 or 4 sentences each:  $3 \times 5 = 15$ 
  - (a) Crust

(b) Size, shape, mass and density of the earth

(c) Weathering

(d) Parts of a fold

(e) Dip and strike

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# 2013

(1st Semester)

**GEOLOGY** 

FIRST PAPER

( General and Structural Geology )

Full Marks: 55

Time: 2 hours

( PART : B—DESCRIPTIVE )

( Marks: 35 )

The figures in the margin indicate full marks for the questions

Answer **five** questions, selecting **one** from each Unit

#### UNIT-I

- 1. Write an essay on the scope of geology, its sub-branches and its relationship with other branches of science.
- 2. Describe the internal constitution of the earth with the help of labelled diagrams.

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#### UNIT-II

3.		cuss the 'theories of mountain building' n suitable examples.					
4.	Write descriptive notes on any <i>two</i> of the following: 3½×2						
	(a)	Composition of atmosphere					
	(b)	Age determination of the earth					
	(c)	Continental drift theory					

### UNIT-III

5. Give details of the types, causes and geological distributions of 'volcanoes'. 7

6. Discuss the types of 'weathering'. 7

#### UNIT-IV

- 7. Write notes on the following:  $3\frac{1}{2} \times 2 = 7$ 
  - (a) Method of measuring dip and strike in the field
  - (b) Types of unconformities

8.	Write short notes on the following: 3+2+2=7					
	(a)	Topography and its representation				
	(b)	Instruments used in the fieldwork				
	(c)	True dip and apparent dip				

### UNIT-V

9.	Describe		the geometric		metric	c classification	of folds	folds	
	with	the	help	of	neat	sketches.			

10. Draw a labelled diagram showing 'fault terminology'. 7

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