Roll No.

Total No. of Pages: 3

## 1(CCEM)0

Geology

(11)

## Paper-I

Time: Three Hours]

[Maximum Marks: 300

Note:— (i) Answers must be written in English.

- (ii) All questions carry equal marks.
- (iii) Part/Parts of the same question must be answered together and should not be interposed between answers to other questions.
- (iv) The answer to each question or Part thereof should begin on a fresh page.
- (v) Your answers should be precise and coherent.
- (vi) Candidates must answer six questions in all. Candidates should attempt Question No. 1 which is compulsory and any five out of the remaining questions, selecting one question from each Section.
- (vii) If you encounter any typographical error, please read it as it appears in the text-book.

## SECTION-A

- Discuss the various absolute and relative dating methods and state briefly how the age of the earth has been determined? Also explain on the basis of Salinity.
- Describe the various causes of volcanic erruptions. What do you understand by the term 'Ring of Fire'? Discuss earthquake classification also.

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Contd.

3.	Write explanatory notes on the following:		
	(a) Sea-Floor Spreading	.olf No.	
	(b) Origin and growth of Continents.	25×2=50	
4.	Discuss the various evidences in favour of continental drift a	nd plate	
	tectonics.	50	
	SECTION-B		
5.	escribe the various geomorphic processes that have shap		
	Himalayas.	50	
6.	Describe the following with suitable illustrations:		
	(a) Glacial landscape / Landforms		
	(b) Sand Dunes	25×2=50	
	OR		
	Discuss the geological work of wind with neat diagrams.	50	
	SECTION-C		
7.	Discuss the mechanics of folding. Draw neat sketches to i	llustrate	
	various types of folds.	50	
8.	Define normal and reverse faults. Discuss the mechanics of	reverse	
	faulting and thrust faulting.	50	
	any five out of the RO ming questions, selecting one		
	Discuss stress-strain diagram and secondary lineation with	suitable	
	sketches.	50	
	SECTION-D		
9.	Define fossilisation and describe the various modes of	f fossil	
	preservation. Also find out significance of fossils.	50	
10.	minippo delle. V upiminipuo inventaria	es with	
		50	
	OR Seems successful and seems successful and are		

	Write brief notes on the following:			
	(a) Significance of microfossils			
	(b) Mammals of Pinjor Formation.	25×2=50		
	SECTION-E			
12100				
11.	Describe the various stratigraphic principles with suitable sketches.			
	Differentiate biostratigraphy from biochronology.	50		
12.	Discuss the evidences of Cretaceous-Tertiary Boundary	event.		
		50		

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300