This question paper cont	ains 2 printed pages]			
		Roll No.		
S. No. of Question Paper	: 1720			
Unique Paper Code	: 219606		С	
Name of the Paper	: ET-4: Introduction to	Geochemistry		
Name of the Course	: B.Sc. (Hons.) Geolog	y		
Semester	: V I			
Duration: 3 Hours			Maximum Marks: 75	
Write your Rol	t No. on the top immedia	ely on receipt of this quest	tion paper.)	
Instructions for candidates				
	Answer any Fi	ve questions.		
	All questions carr	y equal marks.		
1. Discuss geochemica	classification of elements	. Comment upon atomic en	vironment of elements	
and different types of reservoirs.				
2. Write short notes of	on any two of the follow	ing:		
(a) Radiogenic tra	icers			
(h) Elemental Fra	ctionation			
(c) Be ¹⁰ dating.				
3. What do you under	stand by element transpo	ort? Explain its applicatio	n in thermometry and	
barometry.				

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4.	Wri	Vrite short notes on any two of the following:	
	(<i>u</i>)	Chromatography	
	(<i>h</i>)	Diagenesis	
	(<i>c</i>)	Hydrothermal reactions.	
5.	Disc	iscuss in detail about the geochemical differentiation of the Earth.	
6.	Writ	Write short notes on the following:	
	(<i>a</i>)	Partition Coefficient	
	(<i>b</i>)	Rayleigh fractionation	
	(c)	Chondrite.	
7.	Expl	explain geochemical behaviour of Na in primary and secondary environments.	
8.	Write short notes on the following:		
	<i>(a)</i>	K electron capture	
	(<i>b</i>)	Atomic structures in silicate melts	
	(c)	CIA.	