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M.Sc. (EST) (First Semester) Examination (NC) Wednesday, 11 April, 2018, 10.00 am to 1.00 pm

		PS01	EEST21: En	vironmental (	Chemistry and	Geology	Max. Marks:	
O 4	76 AT 142	ple Choice Ques	tions (Choos	e Correct Ans	wer)		[(	)8] '
Q.1.	Dietil	ed water contains	s no		,			
(1)	a) TC	ļ.	a) TSS	c) TDS	d) None			
(2)	TOM	= TOC x	,, 100	į	,			
(2)	a) 1.7	42 l	<u></u>	c) 1.274	d) 1.247	,		
(2)	d) 1.7	d water contains	more	ions.		•		
(3)	a) OF	[- 1	b) H <sup>+</sup>	c) Cl	d) Mg <sup>+</sup>			
(4)	The	ize of gravels is a	ilways more t	han				
	0) U (	02 cm	ьነ 0.02 cm	c) 0.2 cm	d) 2 cm			•
(5)	Ocea	nic crust is very d	lense, which i	is made of	·			
1	-\ C-	anita	b) Mica	c) Basait	a) Sincon	-		
(6)			Vaathaming oc	curs due to the	actions of	Draginitation /	& Heat	
` /	a) Temperature & Pressure b) Heat & Wind c) Heat & Pressure d) Precipitation & Heat mineral has a cleavage in one direction.							
(7)		mineral has	a cleavage ir	i one direction.				
	a) Ga	ilena	b) Mica	c) Feldspar	d) Calcite			
(8)	Apha	mitic rocks contai	in	grams.	d) Lower			
	a) Co	arse	b) Fine	c) Medium	. u) Lower			
			C. Harris or	(Any Sayan)			•	[14]
Q.2.	Wri	Write a Short Note on followings (Any Seven). Block Disintegration due to frost						_
(1)	Blo	ck Disintegration erence between c	due to most	biochemical res	action		. •	
(2)	Diff	erence between c	Laccoliths	Olochemicar rec				
(3)	Eiai	oorate: Lopoliths, st renewable raw	materials for	chemical syntl	nesis			
(4)	Ent	lain: Infiltration,	Leaching	0				
(5)	Car	ological work of g	daciers					
(6)	Ma	or components of	f soil					,
(7) (8)								
(9)		Soil permeability						
(2)		•						[06]
Q.3.	(a)	(a) Write a note on types of metamorphisms. Explain the different types of metamorphic						
	-	no also						[06]
	(b) Explain chemical types of sedimentary rocks with suitable champs-							Lool
	. ,			(	)K			[06]
	(b)							[06]
Q.4.	(a)	(a) Explain sorting by graphical representation. Mention three different modes of sedimentary serious and the sedimentary serious seri						f J
		transportation by running water.  What are the different processes of chemical weathering? Explain with examples.						[06]
	(b)	What are the dif	terent proces:	ses of chemical	OR	·		, ,
			o Caria	lia affaata? Dig	ouce three-cell c	irculation mode	:1.	[06]
	(b)	- v · · · · · · · · · · · · · · · · · ·						[06]
Q.5.		- 1 a 1 to the man with contable avamples And a hule on its significance.						[06]
	(b)	OR OR						
	(1.)	Write a brief	note on bulk	density and	particle density	of soil. Add	a note on its	[06]
	(b)	importance.	HOLO OIL OUR	t donotty and	,			
0.7	(0)	Discuss twelve	principles of	green chemistr	y.			[06]
Q.6	. (a)	Discuss thouse	h		ial bu gugan m	ethod Discuss	advantages of	[06]

(b) Explain synthesis of polycarbonate material by green method. Discuss advantages of [06]

OR (b) Describe exfoliation and granular disintegration of rocks due to temperature changes. [06]

green method over conventional method.

How minerals are formed? Explain it using Moh's scale.