[P.T.O.

## B. Tech. 7th Semester (Civil Engg.) F. Scheme Examination, May-2017 GROUND WATER ENGINEERING

		Paper-C	CE-453 F		
Tir	ne allo	wed: 3 hours]	[Maximun	[Maximum marks : 100	
No	co	ttempt <b>five</b> quest p <b>mpulsory</b> . Attempt <b>o</b> Il question carry equ	<b>ne</b> question from	estion 1 is	
1.	Exp	lain the following:			
	(i)	Infiltration			
	(ii)	Aquifer			
	(iii)	Leaky Aquifer			
	(iv)	Ditching			
	(v)	Dupit's assumption			
	(vi)	Silting of tube well	•		
	(vii)	Confined aquifer			
	(viii)	Specific retention.		$2\frac{1}{2} \times 8 = 20$	
		Section	n–A		
2.		ain different proper of Aquifer with diag		and different 20	
3.		ain different ground vestigation.	water exploration	n and method 20	
		Section	n-B		
4.		ain Thiem's equilibrioned aquifers.	ım formula for un	confined and 20	

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4×5=20

		$\zeta = \chi$		
5.		o you understand by spherical flow? flow is not used in practical?	Why this 20	
		Section-C		
6.	Explain different parameter for design of tube well.			
	• • • • • • • • • • • • • • • • • • •		20	
7.	What do you mean by well sickness and also explain			
	differe	nt method to remove well sickness.	20	
		Section-D		
8.	aı	What do you mean by artificial recharge re different favourable condition of echarge?		
		What are the various spreading method cecharge?	of artificial 10	
9.	Write short note on the following:			
	(a) In	nduced infiltration		
	(b) R	Lecharge pits		
	(c) F	looding		

(d) Recharge well.