5404

2009-2010 M.Sc. (I SEMESTER) EXAMINATION (APPLIED GEOLOGY) HYDROGEOLOGY - I (GLM-7006)

Maximum Marks: 35

Duration: Two Hours

Answer all questions.

1.	With s	suitable sketch describe the vertical distribution of sub-surface water.	08
	OR		
1'.	Write	notes on the following:	
	(a) Hydraulic conductivity		
	(b) Intrinsic Permeability		
	(c) Renewable and non-renewable groundwater		
2.	What do you understand by the term "artificial recharge" of ground water?		
	Discuss various methods of artificial Recharge.		09
3.	Describe Darcy's Law. Also describe the criteria used for validity of Darcy's		
	Law.		09
		(X, B)	
4.	Explain the surface resistivity method used in groundwater exploration. Also		
	discuss the "Wenner" electrode configuration in detail.		09
		OR	
4'.	Write short notes on the following:		
	(a)	Resistivity and S P logging	
	(b)	Gamma – log	
	(c)	Significance of bore hole logging in water wells.	
	()	and all	

* Christian Chri