This question paper co	ontains 2 printed p	pages]		
		Roll No	. [] [] [
S. No. of Question Pap	per : 816			
Unique Paper Code	: 219501	·	G	•
Name of the Paper	: Hydrogeolo	gy(GEHT-501)		
Name of the Course	: B.Sc. (Hons	s.) Geology		
Semester	: V			
Duration: 3 Hours			Maxi	mum Marks: 75
(Write your Roll No. on the top immediately on receipt of this question paper.)				
Attempt any Five questions.				
. All questions carry equal marks.				
1; Discuss about the subsurface based geophysical methods used in groundwater exploration.				
2. Explain the follow	wing with help of	suitable diagrams	· :	
(a) Vertical d	listribution of sub	surface water.		
(b) Confined	and unconfined a	quifers.		
3. Write notes on	the following:			
(a) Equilibriu	ım condition flow	to a pumping we	ll in confined aquifers.	
(b) Hydrolog				
	n the following:			
	vater occurrence in	n igneous rocks.		
(b) Groundw	ater level fluctuation	UIIS.		

- 5. Differentiate between each of the following pair :
 - (a) Porosity and permeability.
 - (b) Aquifuge and Aquitard.
 - (c) Specific yield and specific retention.
- 6. Differentiate between each of the following pair :
 - (a) Hydraulic conductivity and Transmissivity.
 - (b) Storativity and specific storage.
 - (c) Effluent and Influent streams.
- 7. Discuss about seawater intrusion in coastal aquifers.
- 8. Write short notes on the following:
 - (a) Darcy's law.
 - (b) Precambrian crystalline and Precambrian sedimentary groundwater provinces of india.