1	7P 2	(Pages: 2)	Name	
			Reg. No	
SECOND SEMESTER M.Sc. DEGREE EXAMINATION, MAY 2018				
(Regular/Supplementary/Improvement) (CUCSS - PG) CC15P GEL2 C07 - HYDROGEOLOGY				
				(Applied Geology)
(2015 Admission onwards)				
Ti	me:	: Three Hours	Maximum: 36 Weightage	
I.	Sh	Short answer type questions. Answer all questions.		
	1.	Vadose zone.		
	2.	Meteroic and magmatic water.		
	3.	USSL diagram.		
	4.	Bore wells and tube wells.		
	5.	Hydrograph.		
	6.	Rain water harvesting.		
	7.	Springs.		
	8.	Ghyben-Herzberg relationship.		
	9.	Groundwater recharge and draft.		
	10	O. VES		
	11	1. Effective porosity.		
	12	2. Specific retention.		
13. Semi-confined aqui		3. Semi-confined aquifers.		
	14. Fluoride contamination in groundwater of Kerala.			
			(14 x 1 = 14 Weightage)	
II.	Short essay type questions. Answer any seven questions.			
	15. Problems of over exploitation of groundwater.			
	16. Define water table and peizometric surface with neat sketches.		neat sketches.	
	17. Define Darcy's Law with sketches.			
	18	8. Discuss about various types of well logging.		
	19	9. Define hydrologic cycle with a neat sketch.		

20. Application of remote sensing in groundwater studies.

23. Discuss about the artificial recharge methods suitable for Kerala.

(7 x 2 = 14 Weightage)

21. Problems associated with coastal aquifers.

24. Describe the procedures of a pumping test.

22. Groundwater provinces of India.

- III. Long essay type questions. Answer any *two* questions.
 - 25. Describe surface geophysical methods used in groundwater exploration.

OR

- 26. Write an essay on physical and chemical properties of groundwater for various uses and graphical representations of water quality data.
- 27. Describe types of aquifers and hydrological properties of aquifers.

OR

28. Write an essay on different drilling methods used in groundwater exploration.

 $(2 \times 4 = 8 \text{ Weightage})$
