## M.Sc.(Geology) CBCS Pattern Semester-III **PSCGEOT09-Paper-I : Hydrogeology and Watershed Management**

	ages: 2 e:Three	Hours	* 6 2 9 2 *	<b>GUG/W/23/11270</b> Max. Marks : 80
	Notes:	1. 2.	All questions are compulsory and carry equal marks.  Draw neat sketches wherever necessary.	
1.	Gi	ive de	etail account of hydrological cycle.	
			OR	
	W	rite s	hort notes on:	
	a)	Da	arcy's law.	
	b)	Flo	ow net analysis.	
	c)	Sp	rings.	
	d)	W	ater table contours.	
2.	Gi	ive de	etail account of chemical characteristics of groundwater in rela	tion to domestic use.
			OR	
	W	rite s	hort notes on:	
	a)	Sa	line water intrusion.	
	b)	Ov	ver-exploitation of groundwater.	
	c)	W	ater logging.	
	d)	Ra	adioisotopes in hydrogeological study.	
3.	Gi	ive de	etail account of surface methods of groundwater explorations.	
			OR	
	W	rite s	hort notes on:	
	a)	Ty	rpe of wells.	
	b)	W	ell completion.	
	c)	Ur	nsteady flow.	
	d)	Se	lection of suitable site for well construction.	

**4.** Give detail account of artificial recharge to groundwater.

OR

Writ	e short notes on:	
a)	Conjunctive use	

- b) Watershed.
- c) Role of NGO in watershed development.
- d) Groundwater legislation.

## **5.** Write short notes on:

- a) Un-confined aquifer.
- b) Water table.
- c) Nitrate in groundwater.
- d) Fluoride in groundwater.
- e) Well development.
- f) Hydrograph.
- g) Importance of water resources.
- h) Roof top rain water harvesting.

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