## Ph.D. ENVIRONMENTAL SCIENCE (PHDEV)

## Term-End Examination December, 2018

## **REVE-001: ENVIRONMENTAL CHEMISTRY**

Time: 3 hours		ours Maximum Marks :	Maximum Marks: 100	
Note	e: (i) (ii)	, , ,		
1.	(a)	Discuss the environmental sampling methods and their suitability in Environmental research.	10	
	(b)	Discuss various analytical technologies used in the environmental research.	10	
2.	Explain environmentally benign solvents. Describe the role of water as a solvent.			
3.	What is green chemistry? Explain the principles of Green Chemistry with suitable examples.			
4.	Explain the method of purification of water using ion-exchange resins.			
5.	Explain the principle and the process of Nephelometry.			
6.	Write a note on detectors used in HPLC and write the advantages of HPLC with suitable examples.			
7.	Explain the principle of AAS and justify the advantages of AAS over FES.		20	
8.	Describe the components of gas chromatography and write its applications in environmental research.			