## M.Sc. (Part-II) Semester-III (CBCS) Examination ENVIRONMENTAL SCIENCE

## (Remote Sensing, GIS and Computer Applications)

## Paper-X

Time: Three Hours] [Maxim			ium Marks : 80	
		N.B.: — All questions are compulsory and carry equal marks.		
1.	(a)	Define Remote Sensing. Explain the components of Remote Sensing system.	6	
	(b)	Describe Hemispereic transmittance.	5	
	(c)	Give the application of Remote Sensing in water resouces study.	5	
		OR		
	(d)	Comment on Black body and real body radiations.	6	
	(e)	Give the historical perspectives of remote sensing.	5	
	(f)	Give the applications of remote sensing in wildlife habitat.	5	
2.	(g)	Discuss light scattering and absorption phenomenon in atmosphere.	6	
	(h)	Write in brief about the interaction between EMR and remote sensing.	5	
	(i)	Discuss about spectral signature.	5	
		OR		
	(j)	Explain in brief remote sensing 'Platforms'	6	
	(k)	Explain the characteristics of thematic mapper and multispectral scanner.	5	
	(l)	Comment on-orbits in remote sensing.	5	
3.	Define aerial photography. Add a note on photogrammetry. Give the applications of remote			
	sens	sing in forestry.	16	
		OR		
	_	plain in short any four methods for interpretation of aerial photographs. Give the appli		
		an and regional planning.	16	
4.		What is Computer? Discuss the history of computers.	6	
	(n)	**	5	
	(0)	• • • • • • • • • • • • • • • • • • • •	5	
		OR		
	(p)		6	
	(q)		5	
-		Explain the test of hypothesis with its components.	5	
5.	(s)	Define GIS. Add a note on its capabilities and advantages.	8	
	(t)	Discuss about 'Raster and Vector' data model.	8	
	6.5	OR		
	(u)	Give in short the objectives of GIS and elements of GIS.	8	
	(v)	Give the applications of GIS in environmental management.	8	

