## BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS:	M SC	SEMESTER : III
BRANCI	H: GEOINFORMATICS	SESSION : MO/18
TIME:	SUBJECT: SGI3017 GEOINFORMATICS IN ENVIRONMENTAL STUDIES 3 HRS.	FULL MARKS: 60
<ul> <li>INSTRUCTIONS:</li> <li>1. The question paper contains 7 questions each of 12 marks and total 84 marks.</li> <li>2. Candidates may attempt any 5 questions maximum of 60 marks.</li> <li>3. The missing data, if any, may be assumed suitably.</li> <li>4. Before attempting the question paper, be sure that you have got the correct question paper.</li> <li>5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.</li> </ul>		
Q.1(a)	What is an Ecosystem? Discuss Terrestrial ecosystems.	[6]
Q.1(b)	Elaborate sustainable development.	[6]
Q.2(a) Q.2(b)	What is the significance of air quality monitoring and management? Elaborate What is understood by Global warming and climate change?	[2] [4]
Q.3(a)	How can Urban landscapes be understood spatially? Discuss relevant indices	[6]
Q.3(b)	What are the criteria of Solid Waste Disposal site selection?	[6]
Q.4(a)	What do you understand by Biodiversity? Can India be called a Mega Biodiverse Sta	ate? Justify [6]
Q.4(b)	Why is Wildlife Management an important aspect of Forestry?	[6]
Q.5(a)	What is meant by Freshwater Ecosystem?	[6]
Q.5(b)	Explain how Ocean Surface is monitored through remote sensing satellites.	[6]
Q.6(a)	Why is Environmental Impact Assessments done? Explain.	[6]
Q.6(b)	Explain the steps involved in Cost Benefit analysis with respect to ecological issue	s. [6]
	Give the use of Geoinformatics in Ecological Modelling. Write an elaborate note on Disaster Management.	[6] [6]

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