

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI			
(END SEMESTER EXAMINATION)			
CLASS:	M.Tech		SEMESTER : II
BRANCH:	Remote Sensing		SESSION : SP/22
SUBJECT: REMOTE SENSING IN CLIMATE CHANGE AND ENVIRONMENTAL IMPACT ASSESSMENT, RS 517			
TIME:			FULL MARKS: 50
INSTRUCTIONS:			
1. The question paper contains 5 questions each of 10 marks and total 50 marks.			
2. Attempt all questions.			
3. The missing data, if any, may be assumed suitably.			
4. Before attempting the question paper, be sure that you have got the correct question paper.			
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.			

Q.1(a)	What is the difference between weather and climate?	[CO1,2;BL 2]	[2]
Q.1(b)	What are the greenhouse gases? Which greenhouse gas contributes more, and it is natural or anthropogenic?	[CO2; BL 2]	[3]
	OR		
	Write short notes on Green House effect	[CO2; BL 2]	
Q.1(c)	What is the southern oscillation? How does it impact in Indian monsoon pattern?	[CO2,BL2]	[5]
	OR		
	Explain the El Nino-La Nina weather phenomena in brief and associated winds and their pattern.	[CO2,BL2]	
Q.2(a)	What is carbon accounting? Explain in brief?	[CO2; BL 3]	[3]
Q.2(b)	What is food security? Illustrate the aspects of food security	[CO1,3; BL 2]	[4]
Q.2(c)	How is remote sensing useful in detection and monitoring the impact of climate change on changing crop pattern?	[CO3; BL 3]	[3]
	OR		
	How is remote sensing useful in detection and monitoring the impact of climate change on tree line?	[CO3; BL 3]	
Q.3(a)	Name one of the indices to be used for Snow cover mapping and justify the selection of bands for that index.	[CO3; BL 2]	[3]
Q.3(b)	What is the relevance of snow cover mapping? Explain in details	[CO3; BL 3]	[3]
Q.3(c)	Explain the effects of global warming on glaciers.	[CO4; BL 3]	[4]
	OR		
	How is remote sensing useful in monitoring changing water extent of surface water bodies?	[CO4; BL 3]	
Q.4(a)	What is EIA? Explain the methodology involved in EIA?	[CO4; BL 3]	[5]
Q.4(b)	What is the relation between EMP and EIA?	[CO4; BL 2,3]	[2]
	OR		
	What is EMP? Explain	[CO4; BL 4]	
Q.4(c)	Compare Category A and Category B Project?	[CO4; BL 4]	[3]
Q.5(a)	Explain the importance of Global policies?	[CO4; BL 2,3]	[2]
Q.5(b)	What is Kyoto protocol? Describe in brief.	[CO4; BL 1,2]	[3]
Q.5(c)	Explain UNFCCC and its objectives.	[CO4; BL 1,2]	[5]
	OR		
	What is REDD? Explain its objectives.	[CO4; BL 1,2]	
	OR		
	What is IPCC? Describe the important activities of IPCC.	[CO4; BL 1,2]	