## 1804N228

Candidate's	Seat No	:
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## M.Sc Semester-2 Examination Climate Change and Impact Management

## Paper CCIM - 408

Time	e: 2.30 Hours Total Marks	: 70
Instructions:	All Questions carry equal marks Attempt all Questions	
QI	Discuss in detail any case study on impact assessment.	14
	OR	
QI	A. Discuss the three approaches of impact assessment i.e. sensitivity, adaptability and vulnerability	7
	B. What problems or complexities can be faced while doing impact assessment?	7
QII	Explain in detail all the components and platforms of remote sensing? Write a brief note on types of satellite orbits.  OR	14
QII	A. What are the various applications of GIS in natural resources management?	7
	B. What is GIS? Why it is the most viable option for estimating and monitoring LULUCF?	7
QIII	Make a diagram of earth's radiation budget with detailed information of radiation fluxes?	14
	OR	
Q III	A. Provide a historical perspective of climate modelling. How did the models evolve from IPCC first assessment report to the latest report?	7
	B. List all the most important greenhouse gases? Which is most important natural greenhouse gas and why?	7
Q IV	Highlight the benefits and disadvantages of future characterisation.	14
	OR	
Q IV	$A.\ $ Define analogue. Explain the different types of analogues. What is advantage of the analogue tool in reference to the agricultural sector	7
	B. What is inductive and deductive research? Which is more important? Explain the four characteristic features of scientific method of research	7
Q V	Attempt any 7 out of 12 MCQs/Short question (One- or Two-line answer)/ Fill in the blanks/True or False etc.	2
1	Define spectral resolution	
2	What is geo-referencing?	
3	HEO satellites are at 2000 km altitude. (True or False)	
4	What is the meaning of degree of exposure to climate change?	

## N228-2

- Does increase in vulnerability increase the adaptive capacity of a region?
- 6 A highly sensitive region will have less impacts due to climate change?
- What is comprehensive characterization?
- 8 Why does artificial experiments have zero probability?
- 9 Focus groups are conducted for how many hours or days?
- 10 El-nino is related to -
  - (a) unusual warming of Peru-Chile coast during December
  - (b) unusually high rainfall during monsoon
  - (c) earthquake in the Pacific
  - (d) hurricanes in the Atlantic
- Which of the followings is not a greenhouse gas:

- $\sim$ 

- $(a)N_2$
- (b)CO<sub>2</sub>
- $(c)N_2O$
- $CH_4$
- What is the average depth of the ocean:
  - (a) 35 m
  - (b) 350 m
  - (c) 3500 m
  - (d) 35000 m