	Utech
Name :	
Roll No.:	A Agree by Exercising and Explaint
Invigilator's Signature :	

## CS/PGD in Geoinfo/SEM-2/DGI-203/2011 2011

### GEOINFORMATICS IN DISASTER MANAGEMENT

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

# GROUP – A ( Objective Type Questions )

		(Objective Type guestions)
1.	Ans	wer any $ten$ of the following: $10 \times 1 = 10$
	i)	What is meant by the word "pollution"?
	ii)	Burnt areas due to forest fires are best identified through use of NDVI. [State <i>True</i> or <i>False</i> ]
	iii)	What are the sources of air and water pollution?
	iv)	remote sensing is useful in assessment of volcanic hazards.
	v)	Name two major ground water related hazards of West Bengal.

0003 [ Turn over

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- vi) Name a major mining hazard of West Bengal.
- vii) Name two coastal hazards.
- viii) Cyclone tracking is done with the help of .......satellite.
- ix) The river Tista was once a tributary of the river Ganga.

[ State *True* or *False* ]

- x) Radar sat data is used to map inundated areas during flood time. [State True or False]
- xi) Areas in Nadia and North 24 Parganas districts are more prone to waterlogging than flooding.

[ State True or False ]

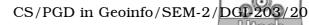
xii) Underground coal fires can be located with the help of ...... remote sensing.

# GROUP – B ( Short Answer Type Questions )

Answer any *three* of the following.  $3 \times 5 = 15$ 

- 2. Define Land Degradation and also mention the factors causing land degradation.
- 3. What is soil pollution and what are the causes of soil pollution?
- 4. What are the causes of earthquakes? How is epicentre of an earthquake located? Name some precursors of earthquake event.
- 5. Briefly describe the role of geoinformatics in earthquake hazard study.
- 6. What is the utility of temporal data in disaster management?

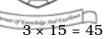
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#### **GROUP - C**

### (Long Answer Type Questions)

Answer any three of the following.



- 7. What is deforestation? Write the causes of deforestation.
- 8. Define forest fire and mention the factors responsible for forest fire.
- 9. What is landslide susceptibility zonation? Why is such study carried out? Describe briefly a method of landslide susceptibility zonation. 3+2+10
- 10. Enumerate the role of Remote Sensing in Disaster

  Management.
- 11. Describe in detail the role of remote sensing data in preparedness, prevention and relief phase during drought condition.

0003 3 [ Turn over