



Name :

Roll No. :

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)

1. Answer any *ten* of the following : 10 × 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 *True* or *False*]
- 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.



- 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 ?



GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.

3 × 15 = 45

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.
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