

M.Sc. 3rd Semester Examination-2022-23

GEO-INFORMATICS

Course ID : 33153

Course Code : GI-303EA

**Course Title : Geo-Informatics for Resource and
Disaster Management**

Time : 2 Hours

Full Marks : 40

The figures in the right hand margin indicate full marks.

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

Answer any four questions selecting at least one from each unit.

UNIT-I : Introduction to Disaster Management

1. Discuss about disaster management. Briefly discuss the role of satellite systems in disaster preparedness. 4+6
2. Briefly discuss different types of disaster forecasting. Discuss the role of satellite images for damage assessment after disaster events. 5+5

(Turn Over)

UNIT-II : Disaster Management Application-I

3. Explain how drought prone areas can be identified using different satellite images. Point out how SPI (Standardized Precipitation Index) method is useful for drought monitoring? 6+4
4. Write a short note on causes of forest fire and risk zonation mapping for forest fire using Geoinformatics. 4+6

UNIT-III : Disaster Management Application-II

5. Discuss the role of RS & GIS for soil erosion modeling. Mention the role of geoinformatics for landslide monitoring. 5+5
6. Discuss the causes and effects of Tsunami and rehabilitation after disaster. 5+5
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