**TU/CDOE**

**TEZPUR UNIVERSITY**

**SEMESTER END EXAMINATION (AUTUMN 2022)**

**DEM / DIPEVMD 104: FUNDAMENTALS OF DISASTER MANAGEMENT**

**Time:** 3 Hours **Total Marks:** 70

*The figures in the right-hand margin indicate marks for the individual question.*

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1. Write answer within 50 words for each question: 2x7=14
2. Distinguish between Geophysical and Hydro-meteorological Hazards.

***or***

Mention three structural measures useful for flood risk mitigation.

1. Based on which two basic parameters disaster risk of any system can be assessed?
2. Name two prominent Landslide prone belts of India.
3. What percentages of landmass are prone to Earthquake and Flood in India?
4. Mention three basic factors of capacity building.
5. Which disaster model explains progression of vulnerability? Name two factors related to progression of vulnerability in a system.
6. Mention two structural vulnerabilities pertaining to earthquake hazard.

***or***

Distinguish between length of forewarning and response time of a hazard.

1. Answer the following within 100words: 5x5= 25
2. Distinguish between structural and non-structural measures. Describe five non-structural measures useful for disaster risk mitigation.

***or***

Mention five visible warning signs of landslide.

**P.T.O**

1. Describe the mechanism by means of which disaster risk of any hazard prone area can be estimated.
2. What type of hazard induced disaster events increased exponentially during last century? Discuss five major reasons of increasing trends of such events.
3. Why CBDM should be integral part of disaster risk mitigation related activities? Discuss essential conditions of CBDM practices.
4. Discuss about five types of vulnerability factors with examples.
5. Answer the following within 500 words:
6. Discuss elaborately about the factors useful for prevention of industrial disaster. 10

***or***

Discuss about the philosophy and fundamental factors pertaining to formulation of coping strategies.

1. Compare the general characteristics and problem areas of geophysical and hydro-meteorological hazards. 11
2. Point-out probable options for prevention of disaster in any system. Discuss about basic issues / criteria of planning for prevention of disaster. 10

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