**TU/CDOE**

**TEZPUR UNIVERSITY**

**SEMESTER END EXAMINATION (AUT 21 & SPR 22)**

**DIPEVMD / DEM 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 70 words for each question.
2. Give two examples of non-structural measures related for flood risk mitigation. **2**
3. Distinguish between frequency and exposure time of a hazard. **2**

***or***

Differentiate between the terms Disaster and Vulnerability.

1. Define disaster risk and mention its two basic parameters.

**2**

1. What type of hazard induced disaster events increased exponentially during last century? Give two examples of that type of hazard. **2**
2. Give three examples of Geophysical hazard. **2**
3. Name two dominant flood basins of India. **2**
4. Give examples of two types of vulnerability. **2**
5. Write answer within 150 words for each question.
6. Explain the process of hazard and vulnerability analysis. **5**
7. Discuss briefly about possible causes and early warning signs of landslide. **5**
8. What are the dominant reasons for increasing trends of disaster events globally? **5**

**P.T.O**

1. Define Community and describe essential conditions of CBDM process. **5**
2. What are the three possible options for prevention of disaster? Point out five basic aspects pertaining to prevention of disasters. **5**

***or***

Give six examples of structural and non-structural unsafe conditions pertaining to earthquake disaster risk.

1. Write answer within 500 words for each question.
2. Discuss elaborately about structural and non-structural measures for disaster risk mitigation. **11**
3. Which approaches are useful for disaster risk analysis? Discuss briefly about these approaches. **10**
4. Compare general characteristics and causes of flood and earthquake. **10**

***or***

Discuss about fundamental factors and alternative adjustment processes related to coping strategies.

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