

SEAT No. _____
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SARDAR PATEL UNIVERSITY

M.Sc. (Geoinformatics)

SEMESTER – II

EXTERNAL EXAMINATION (April 2017)

PS02EGIN02 (Disaster Management)

Date: 21-04-2017

Marks: 70

Time: 02:00 pm to 05:00 pm

Q.1 Answer all questions

(8 Marks)

(A) Proportion of methane in global warming is _____ %

- a. 19 b. 68 c. 11 d. 6

(B) Tsunami vulnerability in India is _____ %

- a. 19 b. 3 c. 12 d. 8

(C) Early warning is component of _____ planning in cycle of disaster management

- a. Recovery b. Preparedness c. Response d. Mitigation

(D) _____ Ministry is handling drought disaster in India

- a. Agriculture b. Environment & Forest c. Earth Sciences d. Rural Development

(E) Disaster Management Act was formulated in _____ year

- a. 2003 b. 2005 c. 2004 d. 2001

(F) The Indian Ocean Tsunami occurred in _____ year

- a. 2001 b. 2004 c. 2005 d. 2003

(G) Important parameter for landslide early warning is _____

- a. Slope b. Surface Type c. Rani Fall d. Drainage Pattern

(H) Meteorological drought arises when the actual rainfall is _____ % less than the expected rainfall over a wide area and for an extended period of time

- a. 15 b. 20% c. 25% d. 30%

Q.2 Answer any seven questions

(14 Marks)

1. Write full form of IMD, CWC, NDMA and IDRN
2. Define disaster, vulnerability, hazard, capacity and their relationship
3. What is focus and epicenter for earthquake and how epicenter is determined?
4. Define landslide and list four major manmade and natural causes of landslide
5. State difference between weather and climate and mention climate change observations
6. Explain use of GPS in drought disaster management
7. Briefly explain role of GIS in impact assessment of flood in context of agriculture
8. Explain urban flooding
9. What is financial mechanism for disaster management in India?

Q.3 (a) Explain drought and types of drought and method of composite vulnerability assessment (6 Marks)

(b) Describe risk assessment and analysis in context of landslide disaster (6 Marks)

OR

(b) What is role of RS and GIS in cyclone management (6 Marks)

Q.4 (a) Describe role of five major institutes in disaster management (6 Marks)

(b) Explain pre-disaster and post-disaster planning in context of earthquake (6 Marks)

OR

(b) Explain global disaster trend in context of climate change (6 Marks)

Q.5 (a) Describe disaster profile of India and five mega disasters of India (6 Marks)

(b) Explain national disaster management plans and guidelines (6 Marks)

OR

(b) What do you understand by paradigm shift in Disaster Management (6 Marks)

Q.6 (a) What are structural and non-structural measures for flood management? (6 Marks)

(b) Explain technological disasters (6 Marks)

OR

(b) Explain role of ICT in entire cycle of disaster management (6 Marks)

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