

Time 3 hrs

Max Marks 80

- Note: (1) Attempt any **four** questions out of **six** questions  
(2) Legible handwriting and practical, real time examples will be appreciated  
(3) Draw neat and clean sketches to explain concepts  
(4) Weightage will be given to the point explanation.

Qu. 1 Answer briefly any **four** of the following, each question carries five Marks. (20)

- (a) Define disaster, explain with examples the difference between hazard and vulnerability.
- (b) State the reasons about increase in the frequency of multiple fold of disaster.
- (c) What precautions are expected in mass casualty management
- (d) Define risk and suggest two ways of reducing risk with appropriate examples.
- (e) Discuss in details role of NGO in disaster management

Qu. 2

- (a) Write an explanatory note on occurrence, causes and measurement of earthquake. List out some of the major earthquakes occurred in India. (10)
- (b) Explain the physics of cyclone, state various types, How cyclones are tracked (10)

Qu. 3

- (a) How do floods take place? What are the possible risk reduction measures? Comment about the flood management in India (10)
- (b) Discuss about the types, causes and adverse effects of a landslide. What are the possible risk reduction measures? State the probable causes of some of the major landslides occurred during last two years. (10)

Qu. 4

- (a) Write on community based disaster management (5)
- (b) Explain Disaster Management Act and its provisions. (7)
- (c) Discuss the administrative structure and the institutions set up to handle disasters (8)

Qu. 5

- (a) What can be done to reduce the risk of mass casualty situations (6)
- (b) How applications of GIS and remote sensing in disaster management is effective, explain (7)
- (c) How the financing is done in case of disaster, especially a reconstruction phase. (7)

Qu. 6 (20)

- (a) List financial institutions and functions of the same in case of disaster
- (b) Explain role of an international agencies in extreme events.
- (c) Why provisions of sea walls and warning system are made across the world
- (d) What are the possible way of carrying out mitigation measures in disasters