

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 takes 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