

Reg. No.

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**SEVENTH SEMESTER B. ARCH. DEGREE EXAMINATION – JAN/FEB 2019**

**SUBJECT: ARC-14-411.4 DISASTER MANAGEMENT**  
**(2014 SCHEME)**

Monday, February 04, 2019

Time: 10:00 – 13:00 Hrs.

Max. Marks: 50

- ✗ Answer any FOUR FULL Questions.
- ✗ Question no. 1 and 2 are mandatory questions.
- ✗ Assume suitable data wherever necessary.

1. What are the different classifications of Disasters? Also mention the types of disasters expected under those classifications. Consider most critical disaster and do a geographical mapping of its threat across India. What is the role of an architect with respect to that disaster?

(3+4+5+3 = 15 marks)

2. Writes short notes on:

- 2A. Common Risk Assessment Methodology (CRAM)
- 2B. Climate Change Adaptation
- 2C. Qualitative Risk Analysis
- 2D. Disaster Risk Reduction
- 2E. National Disaster Management Plan

(3 marks × 5 = 15 marks)

3. What is Trigger mechanism? Design the Trigger mechanism with respect to the city that you have studied for the disaster management. Explain the role of elective model as well as selective model. Distinguish your Trigger mechanism with respect to a city level disaster, state level disaster and country level disaster.

(2+3+2+3 = 10 marks)

4. Distinguish between Qualitative and Quantitative Risk Analysis. Mention at least five aspects.

(2 marks × 5 = 10 marks)

5. Mention the city that you have studied for Disaster management and list down three of the most expected disasters for that city. Mention two specific design considerations/guidelines for each of these disasters that can help hospitals for a better emergency preparedness. Also provide the justifications that how these considerations/guidelines will be helpful in specific types of disasters.

(3+6+1 = 10 marks)

