

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)**

**CLASS: BE
BRANCH: CIVIL**

**SEMESTER: VII
SESSION : MO/2018**

SUBJECT : CE7013 DISASTER MANAGEMENT

TIME: 1.5 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 30.
2. Candidates may attempt for all 30 marks.
3. In those cases where the marks obtained exceed 25 marks, the excess will be ignored.
4. Before attempting the question paper, be sure that you have got the correct question paper.
5. The missing data, if any, may be assumed suitably.

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- Q1 (a) What is a hazard? What is the difference between hazard and disaster? [2]
(b) What is disaster management? Why do we need disaster management? [3]
- Q2 (a) Discuss the phases of Disaster Management Cycle. [2]
(b) Discuss the significance of disaster prevention and highlight major issues involved in it. [3]
- Q3 (a) Define Risk Assessment and underline the methodologies for conducting risk assessment. [2]
(b) Explain the role of government agencies for Disaster Management. [3]
- Q4 (a) How climate change affect the occurrences of natural disasters? [2]
(b) Discuss the concept of community based Disaster Management and highlight its principles and challenges. [3]
- Q5 (a) Write a note on capacity building for Earthquake Vulnerability Reduction. [2]
(b) What is a soft-storey? Describe the seismic response of a reinforced concrete framed building with a soft-storey? [3]
- Q6 (a) Explain the mitigation measures required for Earthquakes. [2]
(b) Explain the design procedure for disaster resistant construction. [3]

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