

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

**CLASS: IMSc
BRANCH: MATHS**

**SEMESTER :VIII
SESSION : SP/19**

SUBJECT: ARC8037 DISASTER MANAGEMENT

TIME: 3.00 Hrs

FULL MARKS: 60

INSTRUCTIONS:

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
 2. Candidates may attempt any 5 questions maximum of 60 marks.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) India is one of the most vulnerable countries in term of disaster? Discuss with suitable examples. [6]
Q.1(b) State the relationship between Disaster and Development. [6]
- Q.2(a) Differentiate between magnitude and intensity of an earthquake. How are they measured? [6]
Q.2(b) Explain the causes of an earthquake in detail. [6]
- Q.3(a) Explain the various phases of disaster management. [6]
Q.3(b) Elaborate on risk assessment and risk analysis. [6]
- Q.4(a) Explain with suitable example the spectrum of environmental hazards. [6]
Q.4(b) Discuss the different phases in disaster. [6]
- Q.5(a) Define capacity building of Disaster management team. Why it is important? [6]
Q.5(b) Describe the role of various institutions involved in capacity development in India. [6]
- Q.6(a) How do you define Child Protection and Gender in Emergency Planning? [6]
Q.6(b) The electronic and print media can play an effective role in disaster management. Discuss. [6]
- Q.7(a) Discuss the role undertaken by NGOs for disaster related emergencies. List the functions of various activity. [6]
Q.7(b) Mention the seismic design philosophy for designing a structure. [6]

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