

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

CLASS: MTECH
BRANCH: RS

SEMESTER : I
SESSION : MO/19

SUBJECT: RS506 REMOTE SENSING IN DISASTER MANAGEMENT

TIME: 3 HOURS

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 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) What are the basic objectives of 'Disaster Management' considering a hazard and its damage potential? [5]
- Q.1(b) Describe causes of Earthquakes and types of Seismic waves. [5]
- Q.2(a) How can zonation of natural hazards help in safer Land use planning and regulations for sustainable development? [5]
- Q.2(b) GIS for Disaster mapping - Justify giving examples. [5]
- Q.3(a) How do disaster legislation and policy facilitate long term disaster mitigation? [5]
- Q.3(b) What do you understand by Disaster Management Act and Sendai Framework? Discuss. [5]
- Q.4(a) What do you understand by Spatial and Non-spatial data bank creation for Disaster Management Planning? [5]
- Q.4(b) Early warning and post-disaster rehabilitation - how can disaster management planning help? [5]
- Q.5(a) Floods in Indo-Gangetic plains - discuss and elaborate. [5]
- Q.5(b) Demonstrate the utility of Remote Sensing in Glacial Lake Outburst Flood (GLOF) assessment. [5]

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