

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

CLASS: MTECH/MSC/MUP
BRANCH: CIVIL/CAAD/ECE/MECH/ET/PHYSICS/MGI/MUP

SEMESTER : I
SESSION : MO/18

SUBJECT: AR604 DISASTER MANAGEMENT & PLANNING

TIME: 3.00 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) Distinguish between complex and compound disasters with suitable examples. [5]
- Q.1(b) Discuss the characteristics of following hazards with reference to predictability, factors contributing to vulnerability, risk reduction measures, management measures and specific preparedness plan: [5]
i) Earthquake ii) Floods
- Q.2(a) How is risk determined? Discuss the methods for risk assessment. [5]
- Q.2(b) Outline the aims of emergency and post-disaster assistance. Discuss the typical activities of emergency response based on sudden and slow onset disasters. [5]
- Q.3(a) Discuss the risk reduction measures through land control, site planning and land management. [5]
- Q.3(b) Briefly describe the entry points for mainstreaming resilience planning in urban India. [5]
- Q.4(a) Outline the strategic goals enshrined in the Hyogo Framework for Action (2005-2015). Discuss the divergence and convergence for DRR and adaptation. [5]
- Q.4(b) Explain the role of remote sensing and GIS applications in real time disaster monitoring, prevention and rehabilitation. [5]
- Q.5(a) How capacity building helps in disaster management process? [5]
- Q.5(b) Discuss the legal and institutional framework for disaster management in India. [5]

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