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

CLASS: MUP/Pre-PhD SEMESTER: I BRANCH: ARCHITECTURE SESSION:MO/2023

SUBJECT: AR604 DISASTER MANAGEMENT & PLANNING

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.

Q.1(a)	Define Vulnerability. Outline the various factors and types of vulnerability with suitable examples.	[5]	CO 1	BL 1
Q.1(b)	Enumerate the different types of landslides and their causes. Discuss the landslide vulnerability in India.	[5]	1	2
Q.2(a) Q.2(b)	Explain the different types of risk assessment methods. Explain any three types of technological hazards by citing suitable case examples.	[5] [5]	2	2
Q.3(a) Q.3(b)	Write a short note on urban risk and vulnerability. Discuss the incentives for disaster risk reduction in the context of land use planning and management.	[5] [5]	1 2	2
Q.4(a)	Enumerate the application of GIS and remote sensing in pre and post-flood mitigation strategies.	[5]	3	3
Q.4(b)	Outline the role and responsibilities of armed forces, police forces, SDRF and NDRF during and after disasters.	[5]	1	1
Q.5(a) Q.5(b)	Write a short note on the Disaster Management Act, 2005. Enumerate the key points of the Hyogo framework and Sendai framework.	[5] [5]	2	1 1

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