

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(MID SEMESTER EXAMINATION SP/2023)

CLASS: B.TECH/B.ARCH  
BRANCH: ECE/EEE/CSE/IT/MECH/PROD/BARCH

SEMESTER : VI  
SESSION : SP/2023

SUBJECT: CE429 DISASTER MANAGEMENT  
TIME: 02 Hours

FULL MARKS: 25

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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		CO	BL
Q.1(a)	Distinguish between hazard and disaster with suitable examples.	[2] 1	2
Q.1(b)	Interpret the reasons for environmental disasters.	[3] 1, 3	3
Q.2(a)	Define risk and vulnerability. Briefly, explain vulnerability assessment.	[2] 1, 3	1, 2
Q.2(b)	Describe the different meteorological disasters.	[3] 1, 3	3
Q.3(a)	Illustrate the FMEA process.	[2] 2, 3	3
Q.3(b)	Examine the main elements of disaster risk reduction.	[3] 2, 3	4
Q.4(a)	Summarize HAZOP process.	[2] 2	2
Q.4(b)	Examine the two-phase method of disaster management.	[3] 2, 3	4
Q.5(a)	Define flood. Discuss the different types of floods.	[2] 1, 3	1, 2
Q.5(b)	Analyse the different flood management and mitigation measures.	[3] 3	4

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