

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

CLASS: BTECH/ BARCH
BRANCH: MECH/PIE/ARCH

SEMESTER : VI
SESSION : SP/2024

SUBJECT: CE429 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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		CO	BL
Q.1(a)	Differentiate between Hazard and risk. Explain the four steps involved in Hazard Identification and Risk Analysis (HIRA)	[5] 1	3
Q.1(b)	Analyse the statement, "The first 72 hours after a disaster are crucial."	[5] 1	3
Q.2(a)	Describe any three types of Disaster risk management involving local inhabitants	[5] 2	2
Q.2(b)	Discuss the responsibilities of NDMA within the purview of the Disaster Management Act 2005	[5] 2	3
Q.3(a)	Explain the scientific basis of tsunamis in terms of the depth of water.	[5] 3	2
Q.3(b)	Discuss the formation of a tropical cyclone with proper diagrammatic representation.	[5] 3	2
Q.4(a)	Summarize the response and risk management to volcanic hazards	[5] 4	2
Q.4(b)	Write about mitigation and preparedness measures for cyclone disaster management	[5] 4	2
Q.5(a)	Discuss the different Biosafety levels to tackle biological pathogenic hazards.	[5] 5	2
Q.5(b)	Summarize the objectives of Industrial fire safety	[5] 5	2

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