

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

**CLASS: BTECH
BRANCH: CS/IT/ECE/PIE/CP&P**

**SEMESTER : VII
SESSION : MO/2022**

SUBJECT: CE429 DISASTER MANAGEMENT

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) What do you mean by "Hazard"? | [CO1, BL I] | [2] |
| Q.1(b) Explain the concept of "Vulnerability". | [CO1, BL II] | [3] |
| Q.1(c) Discuss the types of disasters and their effects. | [CO1, BL VI] | [5] |
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| Q.2(a) What is "Risk"? | [CO2, BL I] | [2] |
| Q.2(b) Explain Disaster management cycle. | [CO2, BL II] | [3] |
| Q.2(c) Discuss the role of NDMA and other nodal agencies to manage disasters in India. Mention the Institutional framework. | [CO2, BL VI] | [5] |
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| Q.3(a) What are the causes of floods? | [CO3, BL I] | [2] |
| Q.3(b) Write a short note on mitigation and prevention of drought. | [CO3, BL I] | [3] |
| Q.3(c) Discuss the causes and effects of cyclone? How to reduce risk associated with it? | [CO3, BL VI] | [5] |
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| Q.4(a) Write the causes of volcanic eruptions. | [CO4, BL I] | [2] |
| Q.4(b) Distinguish between "Magnitude" and "Intensity" of earthquake. | [CO4, BL IV] | [3] |
| Q.4(c) Write the causes of earthquake. How to mitigate its ill effects? | [CO4, BL I] | [5] |
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| Q.5(a) Provide an example of biological disaster. | [CO5, BL I] | [2] |
| Q.5(b) Write a short note on global warming. | [CO5, BL I] | [3] |
| Q.5(c) Discuss the prevention and mitigation measures associated with disasters caused by fire. | [CO5, BL VI] | [5] |

:::28/11/2022:::M