

IIS EMBA in EMS (Rep.) Sem.-2 Examination
IISE-EMS 9

Natural Hazards & Disaster Mgmt.

Time : 2-30 Hours]

May-2025

[Max. Marks : 70

Instructions:

- Question no 1 to 4 carry 14 marks each.
- Question no 5 carries 14 marks (each question of 2 marks). Out of the 12 questions, attempt any seven.

Question 1

- i. Differentiate riverine flood and urban flood. Explain flood prone regions in India and associated major cause of floods for both the types of floods.

OR

- i. Explain the negative and positive impacts of floods in India.

Question 2

- i. Discuss seismic wave types and subtypes. How equipped we are to handle earthquakes currently?

OR

- i. Which parts of the Earth are considered earthquake prone zones and why, discuss from national and global perspective. Explain magnitude and intensity of earthquake.

Question 3

- i. What is a cloudburst and why does it happen? Discuss any cloudburst case from India, its cause, consequences, and future plan to handle such cloudburst.

OR

- i. How a heavy rain can be differentiated from cloudburst? Explain using the example of Kedarnath cloudburst.

Question 4

- i. Why do you think World Economic Forum in its "Global Risk Perception Survey (2023-2024) mentions Extreme weather as the top risk faced by humans? Explain some of the extreme weather events.

OR

- i. What are forest fires? Explain cause and consequences of forest fires in India.

Question 5

Attempt any seven out of twelve.

1. Which of the following is a human-related cause of forest fires?

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|-------------------------|--------------------|
| i. Lightning | ii. Grazing |
| iii. High wind velocity | iv. Rolling stones |

2. Which of the following is **not** a natural cause of forest fires?

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|-------------------|-----------------------------------|
| i. Lightning | ii. High atmospheric temperatures |
| iii. Low humidity | iv. Discarded cigarette butts |

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3. Which of the following is not a type of Seismic body waves?
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|----------------|-----------------------|
| i. P wave | ii. S wave |
| iii. Love wave | iv. None of the above |
4. Which of the following is an example of folded mountains?
- | | |
|------------------|-----------------------|
| i. The Himalayas | ii. The Black Forest |
| iii. Kilimanjaro | iv. None of the above |
5. Magnitude of Earthquake is a Value whereas the intensity is a Value.
6. Flood diversion involves & Formation.
7. NDMA stands for
8. Mention two environmental consequences of floods.
9. Knot is the unit for
10. Give 2 examples of non-structural measures of flood management.
11. In the Philippines, the term used for cyclone is
12. Cloudburst is associated with sized raindrops.

.....**END OF PAPER**.....