GENERATED NOTES FROM PDF

EARTHQUAKES:

- * * **definition:** sudden release of energy in earth's crust creating seismic waves.
- * * **causes:** primarily faults (breaks in rock layers) due to tectonic plate movement. other causes inclu
- * * **fault types:** normal, thrust (reverse), strike-slip (left-lateral, right-lateral).

* **SEISMIC WAVES:**

- * * **body waves:** travel through earth's interior. p-waves (faster, longitudinal) and s-waves (slower, travel)
- * * **surface waves:** travel along earth's surface. love waves (horizontal shifting) and rayleigh waves (contact the surface waves)
- * * **focus (hypocenter):** point of rupture where seismic waves originate.
- * * **epicenter:** point on earth's surface directly above the focus.
- * * **fault line:** surface trace of a fault.
- * * **fault plane:** the cracked surface of the fault.
- * * **fault scarp:** topographic expression of faulting (visible displacement of land).

* **MEASUREMENT:**

- * * **richter scale:** measures earthquake magnitude (logarithmic scale of seismic wave amplitude).
- * * **seismographs/seismometers:** instruments that record ground motion.
- * * **earthquake zones in india:** ii (least active), iii (moderate), iv (high), v (highest).
- * * **earthquake prediction:** difficult to pinpoint time, location, and magnitude, but some precursors incl
- * * **earthquake effects:** loss of life, property damage, infrastructure damage, landslides, fires, soil liqu
- * * **safety measures:** (see detailed instructions in original text for actions inside/outside buildings, in v

NOTABLE EARTHQUAKES IN INDIA:

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* * latur 1993 (6.3)
  * * jabalpur 1997 (6.0)
  * * nandprayag 1999 (6.8)
  * * bhuj 2001 (7.7): widespread devastation, over 20,000 deaths, felt across india.
  * * muzzaffarabad (pok) 2005 (7.4)
  * This condensed version provides a comprehensive overview of the key information presented in the or
* **2001 BHUJ EARTHQUAKE (GUJARAT, INDIA):**
* DATE: JANUARY 26, 2001
  * * time: 08:46:42.9 ist
  * * magnitude: 7.7
* DEPTH: 25 KM
  * * epicenter: 23.40°n, 70.28°e
  * * impact: >100,000 deaths, 167,000 injured, 600,000 homeless. widespread destruction in bhuj, bhach
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* * response: national/state government aid, 185+ ngos, international rescue/relief teams, world bank/ad

* **2005 KASHMIR EARTHQUAKE (PAKISTAN):**

* DATE: OCTOBER 8, 2005

