DISCUSSION QUESTIONS

SESSION 07

EARTHQUAKES AND EARTH’S INTERIOR

1. How many earthquakes are strong enough to be felt annually?
2. What were the magnitudes of earthquakes in
3. Southern Chile, 1960
4. Alaska, 1964
5. Sumatra, 1991
6. Bakersfield, 1952
7. The city of San Francisco was destroyed by an earthquake and subsequent fire in 1906
8. Define: focus, epicenter, seismic waves
9. Explain the elastic rebound theory of earthquakes
10. Differentiate between P, S and L waves
11. Differentiate between L and Rayleigh waves
12. Differentiate between the following earthquake scales
13. Mercalli
14. Richter
15. Moment of Magnitude
16. Seismic waves are used to study the interior of the earth
17. At a discontinuity, waves can be
18. Refracted
19. Reflected
20. Absorbed
21. Draw a diagram showing how the boundary between the liquid outer core and the solid mantle is deduced from the shadow zone for P and S waves
22. Tsunami are ocean waves produced by sea floor displacement. The displacement is caused by earthquakes
23. Explain the seismic gap method to predict earthquakes
24. What is the difference between a fault and a fold?
25. Differentiate between stress and stain
26. Stress and strain can be from
27. Compression
28. Tension
29. Shear
30. Faults are defined by orientation and sense of slip
31. Normal
32. Reverse
33. Thrust
34. Strike slip
35. Strike slip faults are
36. Right lateral
37. Left lateral

POWER POINT ASSIGMENTS: Earthquakes

https://list25.com/25-worst-earthquakes-in-history/

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| **MAJOR EARTHQUAKE** | **STUDENT** |
| Valdivia, Chile, 1960 | Antonio Rodriguez |
| Shaanix, China, 1556 | Cindy Benites |
| Sumatra, Indonesia, 2004 | Cristion Brown |
| Allepo, Syria, 1138 | Desiree Ramirez |
| Tangshan, China, 1976 | Elizabeth Sanchez |
| Haiyuan County, China, 1920 | Gisele Gomez |
| Port-au-Prince, Haiti, 2010 | Hiwet " Layla" Zerom |
| Xining, China, 1927 | Jasmehar Dhillon |
| Damghan, Iran, 856 | Kimberly Christmas |
| Tohoku, Japan, 1911 | Krystyn Moore |
| Kanto, Japan, 1923 | Matthew Pierce |
| Ashgabat, Soviet Union, 1948 | Ochun Morris |
| Messina, Italy, 1908 | Ocean Valdez |
| Chihli, China, 1290 | Paige Petrungaro |
| Sichuan, China, 2008 | Sarah Hernandez Smith |
| Kashmir, Pakistan, 2005 | Shon Stephen |
| Shemakha, Azerbaijan, 1667 | Tony Rodrequez |
| Tabriz, Iran, 1721 | Tye Hammond |