

WHEN THE EARTH SHOOK

KEY POINTS

1. Natural calamities occur due to unpredictable changes in nature that are beyond human control.
2. Natural calamities cause large scale destruction of life and property.
3. Earthquakes and tsunamis result from movement under the earth's crust.
4. Many people die and are rendered homeless during such disaster.

Answer the Following:

Q 1. What is an earthquake ?



An earthquake is a sudden shaking of the ground caused by movement or vibration deep inside earth. Earthquakes can be mild or severe.

Q2. What are natural disasters?

Tsunami Earthquake

Land Slide

Lightning



Volcanic eruption

Cyclone

Tornado

Forest Fire



A natural disaster is a terrible event that is caused by the forces of nature and brings with it destruction, pain and sufferings.

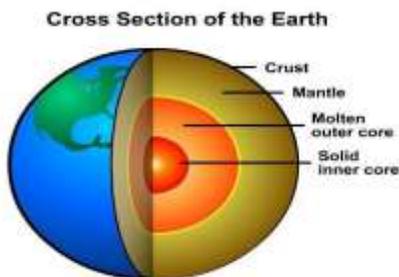
Examples: Flood, Earthquake, hurricane, lightning, tsunami, volcanoes, drought, Forest fire etc..

Q3. *How do earthquakes affect the earth and its people?*



- *Severe earthquakes cause collapse of buildings and bridges burying everything under the earth.*
- *Earthquake in hilly area can cause landslide.*
- *Many people die and are rendered homeless during earthquakes*

Q4. *What causes earthquake?*



The outermost layer of our earth called the crust consists of hot rocks called the mantle. The core is the innermost layer of earth. It is made up of hot molten materials. The core is not in a stable state. A lot of movement is going on inside it. The moving land masses sometimes bump against each other. These bumps make land shake, resulting in earthquakes.

Q5. What should you do when there is an earthquake?



- ▶ *We must run out of the building and move to an open area.*
- ▶ *Stay away from electric poles and trees*
- ▶ *Take refuge under a table to protect ourselves from falling objects*
- ▶ *We should not enter any building even after the earthquake stops. There is always the danger of damage portions falling later.*

Q6. What does the government do when a disaster strikes?



- 1. The Indian Armed forces are trained to help in difficult situations*
- 2. They drop food packets, clothes, water packers and medicines in the affected areas.*
- 3. The red cross society supplies urgent medical relief.*
- 4. NCC help the people affected at the disaster sites*
- 5. FAO, ILO, WHO and NGOs also help at the time of a disaster.*

Q7. *How should one deal with a disaster?*

- *Keep important phone numbers*
- *Keep a bag that contains a torch, a pair of clothes and non perishable food items always ready.*
- *Be aware of the kind of disaster your area is prone to*
- *When a disaster strikes pick up your emergency bag, switch off all the electric points and move out of the house as soon as possible*
- *Avoid using elevators*
- *Encourage people to face the situation bravely*
- *Encourage people around you to help by cash and in kind*



Q8. *What is Cyclone?*

Cyclones are strong and rotating winds common in coastal areas and are associated with high tides and floods.



Q9. What is Landslide?



Landslide are common in hilly region. They occur when slippery masses of rock, earth and debris slide down the mountain slope due to heavy rain fall or earth quake.

Q10. What is Flood? Due to heavy rain, rivers become spread out on the land around them. This event in nature is called flood.



Q11. What is Tsunami?

A Tsunami is an enormous wall of water that comes on to the shore in the form of waves. Tsunami occurs due to undersea earthquakes or volcanic eruptions.



Q12. What is Drought?



If a particular area receives no rain or less rain than normal for a long period, it is said to be affected by drought. Due to drought water sources dry up and no crop can survive. People die of famine.

Q13. Describe Volcanic Eruption.



A Volcano is a hill with a vent. The vent reaches down to the hot molten rock beneath the surface of the earth. During a volcanic eruption the molten rock is forced up the vent. It flows out of the top as Lava. The Lava flows out very fast and burns everything that comes in its way. It causes great damage to property and life.

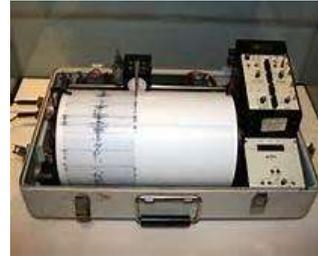
Q14. What is called forest fire?



Sometimes a fire breaks out in a forest due to lightning or due to dry leaves and twigs rubbing against one another. This is called forest fire.

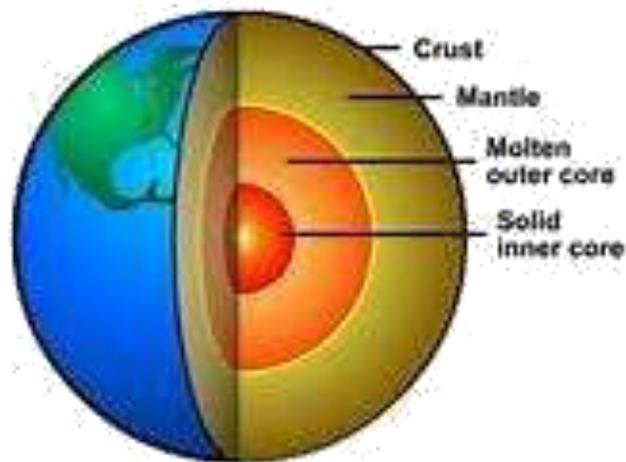
Q15. How is the intensity of an earth quakes measured?

The intensity of an earthquake is measured on Richter Scale using Seismograph.

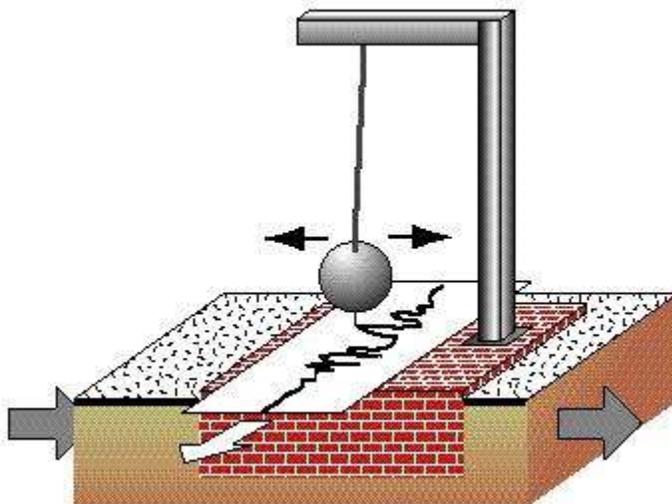


Q16. Draw and label the cross section of earth

Cross Section of the Earth



Q17. What is seismograph?



Earthquakes generate waves that travel all over the earth. This can be detected with an instrument called seismograph.

Q18. Who are seismologist?

People who study earthquakes are called seismologists.



Robert Mallet (1810-1881)

'The Father of Seismology'

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