

Disaster Management

EXERCISE [PAGE 70]

Exercise | Q 1.1 | Page 70

Find the odd one out.

1. Famine
2. Earthquake
3. Cloudburst
4. **Railway accident**

Solution: Railway accident

Famine, earthquake and cloudburst are natural disaster whereas railway accident is not.

Exercise | Q 1.2 | Page 70

Find the odd one out.

1. **Drought**
2. Heavy rains
3. Storm
4. Tsunami

Solution: Drought

Drought is the main cause of famine whereas heavy rains, storm and tsunami are the secondary factors.

Exercise | Q 1.3 | Page 70

Find the odd one out.

1. Lava
2. Hot mud
3. Ash
4. **Locusts**

Solution: Locusts

It is an insect which destroys crops. Lava, hot mud and ash are the substances released during volcanic eruption.

Exercise | Q 1.4 | Page 70

Find the odd one out.

1. Washing away of crops
2. Attack of pests on crops
3. **Volcano**
4. Singeing of crops

Solution: Volcano

Washing away of crops, attack of pests on crops and singeing of crops are causes of famine.

Exercise | Q 2.1 | Page 70

What are the remedial measures for the following calamity: Famine

Solution: Remedial measures for famine are:

- Planned usage of water and its reuse.
- We should avoid wastage of food and water.
- Plant more and more trees to prevent soil erosion.
- Adopting water harvesting methods to conserve rain water.

Exercise | Q 2.2 | Page 70

What are the remedial measures for the following calamity: Lightning strike

Solution: Remedial measures for lightning strike are:

If outdoor:

1. Avoid taking shelter under trees.
2. Avoid being near to any kind of metal objects which may include metal wires, fences, machinery and power appliances.
3. Take shelter inside a fully enclosed car with all the windows shut.

If indoor:

1. Turn off all the electrical appliances such as television and refrigerator.

Exercise | Q 2.3 | Page 70

What are the remedial measures for the following calamity: Storm

Solution: Remedial measures for storm are:

- Do not stand on open ground, below a tree, near electric poles or on high locations.
- Gathering together at one place should be avoided.
- Get down from vehicles like bicycle, tractor, boat, etc. and go to a safer place.

- Swimmers and fishermen should immediately come out of the water.

Exercise | Q 2.4 | Page 70

What are the remedial measures for the following calamity: Cloudburst

Solution: Remedial measures for cloudburst are:

- Pay heed to warning issued by the Meteorological department carefully.
- Do not take shelter at the foot of a hill.
- Be ready with your first-aid kit and other necessary equipments.
- Use battery operated radios and mobiles.

Exercise | Q 3.1 | Page 70

True or false? Give reasons for your answer.

Information about a forthcoming storm is to be kept secret.

1. True

2. False

Solution: The statement given is a false statement. Infact, information regarding a forthcoming storm should be propagated to everyone. This will enable everyone to get prepared for this natural disaster. Everyone will be equipped with all the precautionary measures needed to be taken during the storm.

Exercise | Q 3.2 | Page 70

True or false? Give reasons for your answer.

You should not swim when there is lightning in the sky.

1. True

2. False

Solution: The statement given is a true statement. This is because the water in the water bodies in which we swim are good conductors of electricity. Also, a wet person is more conductive than a dry person. Due to this, our body inside the water will become very prone to lightning strike. It could cause severe burns or might kill us if lightning falls on our wet body.

Exercise | Q 3.3 | Page 70

True or false? Give reasons for your answer.

It is possible to prevent the eruption of a volcano.

1. True

2. False

Solution: No, it is not possible to prevent or control the eruption of a volcano. However, by means of science and technology, it is possible to predict an eruption and take immediate steps for disaster management.

Exercise | Q 3.3 | Page 70

True or false? Give reasons for your answer.

Heavy rains result in famine.

1. True

2. False

Solution: Heavy rains may cause flood in a region. Due to this, food crops, plants etc. of that region are going to get washed away. Also, the land of that region will lose its fertility and would require sometime to regain it. Because of these reasons, the region will be affected by famine. Thus, we can say, heavy rains result in famine.

Exercise | Q 3.4 | Page 70

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Exercise | Q 4.1 | Page 70

Write answers to the following question in your own words.

What is a tsunami? What gives rise to a tsunami?

Solution: A tsunami is a series of waves caused by the displacement of a large volume of water, generally in an ocean. These waves are generated by an earthquake or volcano erupting on the ocean floor.

Exercise | Q 4.2 | Page 70

Write answers to the following question in your own words.

What is a cloudburst?

Solution: A sudden rainstorm falling for a short period of time and to a small geographical area at the rate of 100 mm per hour or more is known as cloudburst.

Exercise | Q 4.3 | Page 70

Write answers to the following question in your own words.

Explain the effects of a volcano.

Solution:

- Volcanoes add up to the greenhouse gases by ejecting ash and various gases.
- Temperature increases due to hot gases.
- Forests and settlements get buried under the hot mud.
- Mountains and hills are created after volcanic eruption.

Exercise | Q 4.4 | Page 70

Write answers to the following question in your own words.

What are the measures to prevent loss of life due to lightning?

Solution: To prevent loss of life due to lightning, following measures can be taken

If outdoor:

1. Avoid taking shelter under trees.
2. Avoid being near to any kind of metal objects which may include metal wires, fences, machinery and power appliances.
3. Take shelter inside a fully enclosed car with all the windows shut.

If indoor:

1. Turn off all the electrical appliances such as television and refrigerator.
2. Avoid bathing or showering

Exercise | Q 5 | Page 70

What measures have been taken to deal with calamities such as floods and landslides under the disaster management programme in Maharashtra?

Solution: Following are the measures taken by Maharashtra government to deal with calamities such as floods and landslides under the disaster management programme:

- It ensured that all 36 districts in the state will have their own disaster management plans. The district-level disaster management plan has detailed information about geographical details, population, flood-prone areas, villages and other macro details. The plan also deals extensively with the emergency and evacuation measures to be taken up in cases of heavy downpour, flash floods, landslides, lightning strikes and other natural calamities.
- A disaster management orientation training programme will be launched soon in 100 schools in every district. The government also decided to impart master trainers training for 50 school teachers from all these schools.
- Maharashtra School Security Programme will be set up under which steps will be taken to ensure protection of schools and other educational institutions during and after natural disasters.
- The Maharashtra State Disaster Management Plan also consists of special provisions for dealing with women, children, the aged, handicapped and animals.

Exercise | Q 6 | Page 70

With reference to disaster management what are the things in your house that you will check?

Solution: With reference to disaster management, the following things in the house needs to be checked:

- Check whether there are cracks developed on walls or not. If yes, get the repairing done as soon as possible.
- Check whether glass panes and windows are tightly secured or not. If not, get it done urgently.
- Check whether bulky things hanging from ceiling or walls, like chandelier etc., are tightly secured or not. If not, get it done urgently.
- Check whether there are any broken electric live wires or not . If yes, call the electrician and get it repaired urgently.