



**CLASS IX**  
**DISASTER MANAGEMENT**  
**UNIT V**  
**CHAPTER 4**

**COMMON HAZARDS – PREVENTION AND MITIGATION**

**SOLUTIONS**

**EXERCISES**

- Q1. List down actions that could be taken in your schools and homes to reduce vulnerability to earthquake damage. Discuss with your teacher and parents.**

*Ans:-* The best remedial action to reduce **the vulnerability to earthquake**, whether in our homes or school, is to make the **buildings earthquake resistant**. Engineered structures are necessary to withstand ground shaking. We must analyze the soil type before construction and avoid building structures on soft soil.

Before a building is constructed, the building plans have to be checked by the Municipality according to the laid down bylaws.

Public awareness is to be created through sensitization and training programmes for Architects, Builders, Contractors, Designers, Engineers, House owners, Masons etc.

- Q2. Write the name of the States of India prone to earthquakes?**

*Ans:-* **The earthquake zone covers all the states of North-East region**, viz., Arunachal Pradesh, Assam, **Manipur**, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura. Besides, some other states along the Himalayan foothills such as Uttar Pradesh, Uttarkhand, Himachal Pradesh, Punjab and Haryana are also prone to earthquakes.

- Q3. List the common factors triggering landslides and the areas in Manipur prone to it?**

*Ans:-* **The common factors triggering landslides are :-**

- (a) excessive deforestation,**
- (b) soil erosion,**
- (c) steep slopes,**
- (d) chemical composition and relative softness of the soil, and**
- (e) heavy rainfall.**

The hill districts of **Manipur are prone to landslides.**



**Q4. Write the beneficial effects of flooding?**

**Ans:- The beneficial effects of flooding are :**

- (i) Flooding makes the soil fertile,**
- (ii) Since floods are always associated with heavy rainfall, these also help in rainwater harvesting.**

**Q5. Write the names of different tropical cyclones that cause much damage to life and property?**

**Ans:- Tropical cyclones** are known by various names in different countries of the world. Some common names are:

- (a) Hurricane,**
- (b) Tornado,**
- (c) Typhoon, and**
- (d) Cyclone.**

**Q6. List down other possible causes of fire?**

**Ans:- The possible causes of fire are listed as:**

- a) Heating sources,**
- b) Cooking accidents,**
- c) Defective electrical wiring,**
- d) Accumulation of rubbish and waste materials,**
- e) Combustible materials,**
- f) Hazardous materials,**
- g) Smoking,**
- h) Arson.**





### EXTRA QUESTIONS AND ANSWERS

**Q1. Suggest two measures that will help in the mitigation of landslides?**

*Ans:-*

- (i) Hazard mapping will locate areas prone to slope failures. This will help to identify avoidance of areas for building settlements.
- (ii) Land use practices such as existing natural vegetation in good condition should be preserved. Denuded upper slopes are to be reforested.

**Q2. Point out two causes of traffic accidents?**

*Ans:- The two causes of traffic accidents are:*

- (i) Violation of traffic regulations, and
- (ii) Over speeding, drunk driving.

**Q3. Suggest three safety measures that can be adopted to minimize traffic accidents?**

*Ans:- The three safety measures that can be adopted to minimize traffic accidents are:*

- (i) Driving the vehicle at the recommended speed,
- (ii) To follow lane driving strictly, and
- (iii) Driving only when we are competent enough.

**Q4. State three safety measures that can be taken for the prevention of fire accidents at home?**

*Ans:-*

- (i) We must not keep inflammable materials inside the house,
- (ii) When we leave our home, we must make sure that all electrical or gas connections are shut off, and
- (iii) We must also keep away match boxes or lighters from children.

**Q5. Write down any two safety measures that one can take in a train journey?**

*Ans:-*

- (i) One should not carry inflammable material in the train,
- (ii) While travelling in a train, one must not stand and lean out of the door.

**Q6. State any two safety measures while travelling by air?**

*Ans:-*

- (i) One should always fasten the seat belt while sitting.
- (ii) One should pay attention to the flight crew's safety demonstration.



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**Q7. Name the Indian city which has been under frequent terrorist attacks?**

*Ans:-* Mumbai

**Q8. Who attacked the World Trade Centre and Pentagon on 11 September, 2001?**

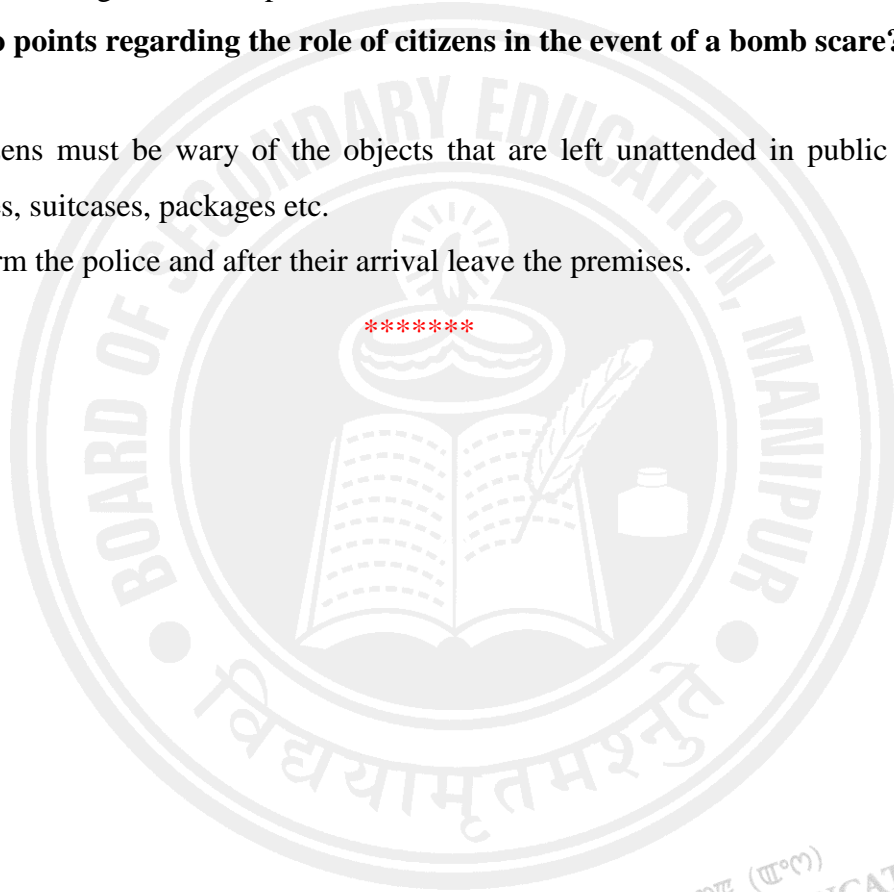
*Ans:-* Terrorists belonging to an organization called Al Qaida attacked the World Trade Centre and Pentagon on 11 September, 2001.

**Q9. State two points regarding the role of citizens in the event of a bomb scare?**

*Ans:-*

- (i) Citizens must be wary of the objects that are left unattended in public places, e.g., boxes, suitcases, packages etc.
- (ii) Inform the police and after their arrival leave the premises.

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