

## **Instructions**

### **Safety instructions in a chemical engineering lab.**

1. Do not work in the laboratory barefoot. Wear shoes to protect your feet.
2. Wear apron and gloves while handling the chemicals.
3. Avoid handling the apparatus and instruments roughly.
4. Do not wear gold ornaments, wrist watches, etc., while working in the lab.
5. Don't let the chemicals come into contact with your skin. Keep your distance.
6. Keep all the doors and windows open while working in the laboratory.
7. Switch off the power supply immediately after completing the experiment.
8. Arrange the apparatus in order after the experiment is over.
9. Dilute acids and prepare solutions only under the guidance of the staff.
10. Take care not to spill the chemicals on the floor.
11. Handle all glassware items carefully.
12. Always rinse the apparatus well both before and after use.

### **Instructions must be followed by all pedestrians.**

1. Walk on the pavement or keep to the extreme left of the road.
2. Use subways; though long, they are absolutely safe.
3. Avoid crossing suddenly.
4. Don't walk on road dividers.
5. Don't ignore traffic signals; they are meant for your safety.
6. Cross the road only at the zebra crossing or when the traffic constable signals to you.
7. Before crossing the road, look on either side to make sure that the road is clear of fastmoving vehicles.
8. Avoid using the cell phone while walking along the road.
9. Be sober. Don't be under the influence of liquor or drugs.
10. Be familiar with the rule of the road and traffic signals.
11. When you see a vehicle approaching, better stop and let it go.

### **Instructions to save petrol**

1. For fuel economy, keep the engine in good condition.
2. Fit the vehicle with an engine that gives high mileage.
3. Don't keep the engine running while the vehicle is not in motion.
4. Inflate the tyres at an optimum level of air pressure.
5. Use the correct engine oil for the proper functioning of the engine.
6. Service the vehicle regularly: an ill-maintained vehicle consumes more petrol.
7. Avoid clutch driving. Resting one's foot on the clutch pedal leads to more fuel consumption.
8. Avoid frequent change of gear to save petrol.

**EXAMPLE 6**

**Write a set of eight instructions that are to be followed by commuters to ensure safe and happy journey while travelling in buses.**

1. Board the bus when it stops in the bus stop.
2. Take the necessary change for getting the ticket.
3. Get your ticket as soon as you get into the bus.
4. Ensure that your ticket is safe till you get down.
5. Keep your belongings safe, in order to avoid theft.
6. Do not stand on the footboard and travel.
7. Hold the clamp tightly while standing inside the bus.
8. Do not get down while the bus is moving and wait till it stops.

**EXAMPLE 7**

**Write a set of eight instructions for ensuring safety in nuclear plants.**

1. Make sure that nuclear plants are constructed away from the residential areas.
2. Ensure that the nuclear power plant is constructed of thick concrete structure.
3. Use control rods to slow down the reaction.
4. Ensure that the workers wear proper clothes and accessories, while working in the plant.
5. Check for radiation levels periodically.
6. Make sure that the radiation is within the permissible level.
7. Do ensure that there are adequate waste disposal facilities.
8. Do have emergency systems to cope with unexpected failures.

**EXAMPLE 3**

**Write a set of eight instructions that are to be followed by the citizens of India to keep the environment clean and green.**

- (a) (i) Plant saplings, wherever possible and grow trees.
- (ii) Do not cut trees, in the name of development.
- (iii) Use green fuels or bio fuels for transportation, for industrial and domestic purposes.
- (iv) Maintain the vehicles in good condition
- (v) Segregate the waste at source and dispose the garbage properly.
- (vi) Avoid using plastic bags.
- (vii) Do not spit in the public places.
- (viii) Preserve the water bodies by not dumping waste into them.