

**Chapters 8: Sound and Noise**

**Model Answers of Practice Paper**

I. Give the technical term for the following.

1. A form of energy that enables us to hear

Ans. Sound

2. A device installed in special vehicles to alert vehicles and people on the roads

Ans. Siren

3. Sound that makes us feel happy and relaxed

Ans. Pleasant sound

4. A device that is installed in buildings to warn people in case of a fire

Ans. Fire alarm

5. Loud and unpleasant sound that make us uncomfortable

Ans. Noise

II. Fill in the blanks

1. Areas near airport have extreme noise pollution.

2. Sound requires a medium to travel.

3. The loudness of sound can be measured in decibel.

4. Sound is produced by a vibrating object.

5. Sound cannot travel in vacuum.

III. Write whether the following statements are true or false. If false rewrite the sentences correctly by changing the first or the last word.

1. Walls are good absorbers of sound.

Ans. False; Trees are good absorbers of sound.

2. A disease called tinnitus causes buzzing in ears.

Ans. True

3. A fire alarm is a warning sound.

Ans. True

4. Nose is the sense organ that helps in producing sound.

Ans. False: Tongue is the sense organ that helps in producing sound.

5. All the people around us have voices that are identical.

Ans. False; All the people around us have voices that are unique.

IV. Match the columns.

Column A

1. Pressure cooker
2. Monkey
3. Loudspeaker
4. Clouds
5. Door

Column B

- e. whistles
- c. chatters
- d. noise pollution
- b. thunder
- a. creaks

V. Give two examples for each of the following.

1. Warning sound

Ans. (a) sound of a fire alarm (b) sound of a siren

2. Disease caused due to noise pollution

Ans. (a) Hypertension (b) Tinnitus

3. Musical instruments

Ans. (a) Guitar (b) Piano

4. Sound absorbers

Ans. (a) Plants (b) Curtains

5. Place where blowing of horn is prohibited

Ans. (a) Near hospitals (b) Near schools

VI. Complete the following pairs.

1. Birds: chirping :: rain drops : pattering

2. Guitar: pleasant sound :: ambulance siren : warning sound

3. Walls: non-absorbers of sound :: trees : good absorbers of sound

4. Crackling sound: dried leaves :: thundering sound : clouds

5. Backbone: spinal cord :: skull : brain

VII. Name the following.

1. Three harmful effects of noise pollution

Ans. (a) May cause sleep problems

(b) Causes headache, loss of concentration

(c) May cause loss of hearing

2. Three measures to reduce noise pollution

Ans. (a) We must avoid playing loud music.

(b) We must watch television at low volume.

(c) We must plant more trees in our surrounding.

3. Three common causes of noise pollution

Ans. (a) Blaring loudspeakers

(b) Blowing of horns

(c) Loud noise produced by machines

VIII. Define the following terms.

1. Noise:

Loud and unpleasant sound that causes discomfort is called noise.

2. Sound:

It is a form of energy that enables us to hear.

3. Noise pollution:

Any sound that is too loud and has harmful effects on humans and animals is noise pollution.

4. Warning sounds:

Loud sounds that are used to warn people about emergencies or dangers are warning sounds.

5. Unpleasant sound:

Sound that makes us feel uncomfortable, stressed or unwell are unpleasant sounds.

**IX. Differentiate between the following on the basis of words given within the brackets.**

1. Fire alarm and sirens (use and place where they are installed)

		Fire alarm	Siren
(a)	Place where they are installed	in buildings	in special vehicles like, ambulances, police car, fire engine
(b)	Use	used to warn people in case of a fire	used to alert people and vehicles on road, to move aside, so that they can quickly reach their destination for help

2. Pleasant and unpleasant sound (effect on human beings and two examples of each)

		Pleasant sound	Unpleasant sound
(a)	Effect on human beings	makes us feel happy and relaxed	makes us feel uncomfortable, stressed and unwell
(b)	Examples	chirping of birds, sound of a musical instrument	sound of an aeroplane, sound of a drilling machine

**X. Give reason for the following.**

1. We must use curtains and carpets in our homes.

Ans. It is because curtains and carpets are good absorbers of sound.

2. Sirens are installed in ambulances and police vehicles.

Ans. It is to alert people and moving vehicles so that they give way to the rushing vehicle.

3. Birds and animals make different sounds.

Ans. Birds and animals make different sounds for different purposes, such as, for communicating with each other or for warning each other against a danger.

4. We are able to identify people just by hearing their voices.

Ans. It is because each one of us has a unique voice.

5. We must play radio and television at low volume.

Ans. We must play radio and television at low volume in order to reduce noise pollution.

**XI. Answer the following.**

1. How is sound produced?

Ans. Sound is produced by a vibrating object.

2. Why does an ambulance have a siren?

Ans. An ambulance has siren so that it can alert people and find its way quickly for rescue.