

7.8 Noise Pollution

Name: _____ Class: _____ Date: _____ **Total: 9 marks**

KEY WORDS noise pollution 噪声污染 • stress 压力 • hearing loss 听力损失 • wildlife 野生动物

Objective

Build the skills to answer exam questions on **noise pollution**.

You must be able to:

- define **noise pollution** 噪声污染 and its sources
- describe effects on humans and wildlife
- suggest ways to reduce it

1 Worked examples

Study these first. Each one shows the method for a question type used later — follow the steps and you can do the Practice and Exam-style questions yourself.

■ What it is

Noise pollution is unwanted or harmful sound, mostly from **traffic, industry, construction, and aircraft**, measured in **decibels (dB)**.

■ Effects on humans

Chronic noise causes **stress, sleep disruption, hearing loss** (at high levels), and raised blood pressure.

■ Effects on wildlife

Noise (especially **underwater sonar/ship noise**) interferes with animal **communication, navigation, and mating** — for example, disorienting whales and dolphins.

■ Reducing noise

- **Barriers** (sound walls along highways).
- **Quieter technology** and mufflers.
- **Zoning** (separating noisy areas from homes) and limits on hours.

■ A worked link

A highway sound wall reflects/absorbs traffic noise, lowering the decibel level reaching nearby homes.

2 Practice

Now apply the methods above.

2.1 Give one source of noise pollution. [1]

2.2 State one effect of chronic noise on humans. [1]

2.3 State one way to reduce noise pollution. [1]

3 Exam-style questions

3.1 Underwater noise pollution most harms marine animals by disrupting their [1]

A	B
C	D

A communication and navigation

B photosynthesis

C digestion

D skeletons

3.2 A new highway is built near a residential area.

(a) State one human health effect of the added noise. [1]

(b) Suggest two ways to reduce the noise reaching homes. [2]

3.3 Explain how ship noise can affect whales. [2]