

## Question 1

There are three types of nuclear radiation - alpha, beta and gamma.

Which of the three is the least penetrating?

## Question 2

There are three types of nuclear radiation - alpha, beta and gamma.

Which of the three is the most penetrating?

### Question 3

All types of radiation become more intense the further the distance from the radioactive material.

- a) True
- b) False

#### Question 4

Match the following to make true sentences.

a) alpha radiation	1. can only be stopped by a few centimeters of lead, or many meters of concrete.
b) beta radiation	2. can be stopped by a sheet of paper.
c) gamma radiation	3. can be stopped by a few millimeters of aluminium, but not by paper.

## Question 5

Complete the statement:

Radioactive Waste can be classified into three main categories: \_\_\_\_\_  
level waste (LLW) \_\_\_\_\_ level  
waste(ILW) and \_\_\_\_\_ level  
waste (HLW).

## Question 6

Which kind of nuclear waste requires cooling?

- a) low-level waste
- b) intermediate-level waste
- c) high-level waste

## Question 7

Is it possible to recycle nuclear waste?

- a. Yes.
- b. No.

## Question 8

Can low-level radioactive waste be disposed of in landfill sites?

- a. Yes.
- b. No.



## Question 9

Does waste from nuclear reactors cause global warming?

- a. Yes.
- b. No.

### Question 10

How long can high-level radioactive waste be hazardous?

- a. 5 half-lives
- b. 10 half-lives
- c. 20 half-lives

## Question 11

Which European country produces the most nuclear waste?

- a. the United Kingdom
- b. France
- c. Germany

## Question 12

Which of these is an excellent shield for the nuclear fuel after it is used in a reactor?

- a. air
- b. water
- c. human body

### Question 13

How should high-level radioactive waste be disposed of?

- a. Incineration
- b. Dumping into the ocean
- c. safe storage deep underground

## Question 14

Radioactive waste can be produced in \_\_\_\_\_ , \_\_\_\_\_ and \_\_\_\_\_.

(choose 3 options from the ones below)

- a. schools
- b. mining industries
- c. nuclear power plants
- d. grocery stores
- e. hospitals
- f. pet shops

