



Using Resources **Multiple Choice Questions**

Set 3 (HT Only)

Tick **one** box.

1. What does sustainable development mean?
 - A. distributing resources evenly across the population
 - B. gradually increasing the number of natural resources used by each successive generation
 - C. using natural resources in a way that meets the current demand while ensuring that sufficient resources will be available for future generations
 - D. using natural resources to sustain the standard of living for the current population

2. Which of these is a finite resource?
 - A. cotton
 - B. coal
 - C. sugar cane
 - D. timber

3. What is used to sterilise ground water in the production of potable water in the United Kingdom?
 - A. chlorine
 - B. ozone
 - C. ultraviolet light
 - D. all of the above

4. How is potable water produced when there is no suitable source of ground water?
 - A. desalination of salty water
 - B. reverse osmosis of salty water
 - C. treatment of waste water
 - D. all of the above

5. Which stage of waste water treatment removes harmful microbes?
 - A. aerobic treatment
 - B. anaerobic digestion
 - C. screening
 - D. sedimentation



6. Which part of a product's life cycle assessment **cannot** be easily quantified?
- A. its energy requirements
 - B. its impact on wildlife
 - C. its waste production
 - D. its water consumption

Table 1 shows information relating to four different coffee cups.

Table 1

	Polystyrene Cup	Ceramic Cup	Plastic Cup	Paper Cup
Raw Materials	crude oil	clay	crude oil	wood
Energy Required for Manufacturing (MJ/kg)	0.20	14.0	6.30	0.50
Lifespan	single-use	reusable	reusable	single-use
Disposal	landfill	landfill	recyclable	recyclable

7. Which cup in **Table 1** is made from a sustainable resource?
- A. ceramic
 - B. paper
 - C. plastic
 - D. polystyrene
8. An office worker switches from using paper cups to a ceramic cup. After how many individual uses would the energy required to manufacture each be equal? Use information from **Table 1**.
- A. 7
 - B. 14
 - C. 28
 - D. 35
9. What is the name of the process which uses plants to absorb metal compounds from the ground ?
- A. agriculture
 - B. bioleaching
 - C. phytomining
 - D. quarrying



10. Which statement about extracting metals is **not** correct?

- A. bioleaching and phytomining are modern ways of extracting increasingly scarce metal ores
- B. bioleaching and phytomining can extract metals from low-grade ores
- C. bioleaching and phytomining have a lesser environmental impact than traditional mining methods
- D. bioleaching and phytomining produce pure metals which do not require any further processing

