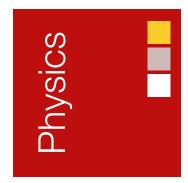
Name





**Date** 

## Cleaning with Light

## **Multiple Choice**

**Short Answer** 

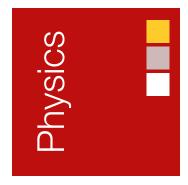
Based on the last sentence of the article, discuss whether lasers were developed for scientific reasons or technological reasons.

For each question, select the best answer from the four alternatives.

- 1. In paragraph 1, "manual scraping" refers to a scraping done
  - a) according to an instruction booklet.
  - b) by hand.
  - c) with chemicals.
  - d) while a supervisor watches.
- 2. Laser light cleans statues and paintings by
  - a) bleaching dirt particles to make them transparent.
  - b) melting the paint surface, so it absorbs and hides the dirt particles.
  - c) rapidly vapourizing dirt particles, turning them into gas.
  - d) heating dirt particles, causing them to expand and fall off.
- 3. In the second sentence of paragraph 3, the commas are used to
  - a) highlight contrasting information.
  - b) set off information that is not essential to the sentence.
  - c) separate independent clauses.
  - d) indicate missing words.
- 4. Which of the following uses of lasers relies on the same properties of lasers as the cleaning of art?
  - a) laser surgery that reshapes the surface of the eye
  - b) bouncing laser beans off the surface of the Moon to determine its distance
  - c) using lasers to cut or weld steel
  - d) laser scanning of product barcodes in stores

		<u> </u>	

Cite wording from the article in your answer.



**Multiple Choice** 

four alternatives.

For each question, select

the best answer from the



## Cleaning with Light

- 1. In paragraph 1, "manual scraping" refers to a scraping done
  - a) according to an instruction booklet.
  - b) by hand.
  - c) with chemicals.
  - d) while a supervisor watches.
- 2. Laser light cleans statues and paintings by
  - a) bleaching dirt particles to make them transparent.
  - b) melting the paint surface, so it absorbs and hides the dirt particles.
  - c) rapidly vapourizing dirt particles, turning them into gas.
  - d) heating dirt particles, causing them to expand and fall off.
- 3. In the second sentence of paragraph 3, the commas are used to
  - a) highlight contrasting information.
  - b) set off information that is not essential to the sentence.
  - c) separate independent clauses.
    - d) indicate missing words.
- 4. Which of the following uses of lasers relies on the same properties of lasers as the cleaning of art?
  - a) laser surgery that reshapes the surface of the eye
  - b) bouncing laser beans off the surface of the Moon to determine its distance
  - c) using lasers to cut or weld steel
  - d) laser scanning of product barcodes in stores
- 5. "An invention is search of a purpose" means that lasers were developed without

having a particular use for them in mind beforehand. Therefore, lasers were a

product of pure science because technology is the practical application of

science to the solution of problems or the development of useful devices.

## **Short Answer**

Based on the last sentence of the article, discuss whether lasers were developed for scientific reasons or technological reasons. Cite wording from the article in your answer.

©2010 Nelson Education Ltd.