

Name: _____ Date: _____

Chapter 10 Quiz

Part A: Modified True/False

Indicate whether each statement is true or false. If false, change the underlined word or phrase to make the statement true.

- _____ 1. The Sun is the only natural source of light. _____
- _____ 2. Incandescence is the process of emitting light because of high temperature.

- _____ 3. The darkest part of a shadow is the penumbra. _____
- _____ 4. Transparent objects block light. _____
- _____ 5. The colours of the rainbow are called the visible spectrum.

- _____ 6. Blue materials look blue because blue light is absorbed. _____
- _____ 7. We see black if all of the visible colours are reflected. _____
- _____ 8. Solar energy is a non-renewable resource. _____

Part B: Multiple Choice

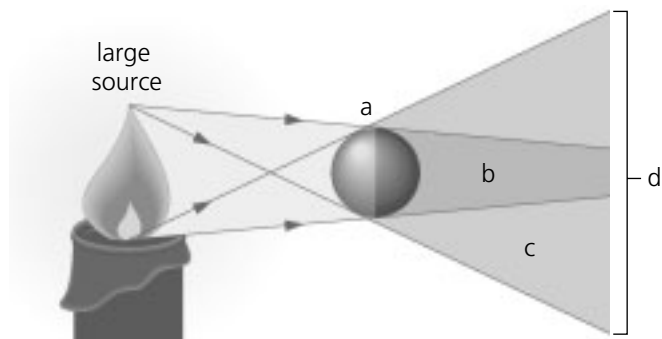
Circle the letter beside the answer that best completes the statement or answers the question.

9. The Moon's light is produced by

- (a) phosphorescence
(b) chemiluminescence
(c) reflection
(d) refraction

10. In the following diagram, which part is the penumbra?

- (a) a
(b) b
(c) c
(d) d



11. Materials that allow some light to pass through are considered to be

- (a) transparent
(b) translucent
(c) opaque
(d) reflective

12. Why are most roofs on Canadian houses made of dark materials?

- (a) Dark roofs absorb more light.
(b) Dark roofs reflect more light.
(c) Dark roofs are opaque.
(d) Dark roofs transmit more light.

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Chapter 10 Quiz (continued)

13. The correct order of the colours of the visible spectrum is
 (a) red, orange, yellow, green blue, violet (c) violet, blue, red, orange, yellow, green
 (b) orange, red, yellow, blue, green, violet (d) red, yellow, orange, green, blue, violet
14. Which of the following is a radiant energy?
 (a) visible light (c) X-rays
 (b) ultraviolet light (d) all of the above
15. How fast does light travel?
 (a) 3 000 km/s (c) 1 000 000 km/s
 (b) 300 000 km/s (d) 1 000 000 000 km/s

Part C: Matching

Match each word with the correct description.

- | | |
|---------------------|-----------------------|
| (a) luminous | (e) fluorescence |
| (b) nonluminous | (f) chemiluminescence |
| (c) incandescence | (g) bioluminescence |
| (d) phosphorescence | |

- ____ 16. process of emitting light while receiving energy from another source, such as a tube of mercury vapour
- ____ 17. objects that only reflect light
- ____ 18. process of emitting light for a short time after receiving it from another source
- ____ 19. objects that emit energy in the form of light
- ____ 20. reaction that emits light from living things
- ____ 21. process of emitting light because of high temperatures
- ____ 22. process used by glow sticks or light sticks to produce light

Part D: Short Answer

Use sentences to answer the following questions.

23. How are bioluminescence and chemiluminescence similar? How are they different?
