Name:

# 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.

Date:

- **F** 1. The Sun is the <u>only</u> natural source of light. <u>most important</u>
- $\mathbf{T}$  2. <u>Incandescence</u> is the process of emitting light because of high temperature.
- \_\_\_\_ 3. The darkest part of a shadow is the penumbra. \_\_\_\_\_\_
- <u>F</u> 4. <u>Transparent</u> objects block light. <u>Spaque</u>
- <u> $\frown$ </u> 5. The colours of the rainbow are called the <u>visible spectrum</u>.
- **F** 6. Blue materials look blue because blue light is <u>absorbed</u>.
- 7. We see <u>black</u> if all of the visible colours are reflected. \_\_\_\_\_\_\_
- \_ \_ 8. Solar energy is a <u>non-renewable</u> resource. \_ <u>renewable</u>

### Part B: Multiple Choice

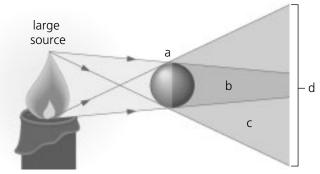
Circle the letter beside the answer that best completes the statement or answers the question.

- 9. The Moon's light is produced by
  - (a) phosphorescence
  - (b) chemiluminescence
- 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) reflection (d) refraction



- (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)  $3\ 000\ \text{km/s}$
  - ((b) 300 000 km/s

(c) 1 000 000 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
- 5 17. objects that only reflect light
- **18**. process of emitting light for a short time after receiving it from another source
- **A**\_19. objects that emit energy in the form of light
- <u><u><u></u><u></u>20. reaction that emits light from living things</u></u>
- <u>**C**</u>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?

Bioluminescence is caused by a chemical reaction that is similar to chemiluminescence, but chemiluminescence does not only come from living things like bioluminescence docs.