Reflection of Light

The Moon makes no light, yet it shines at night: sunlight bounces off it to our eyes. That bouncing back is reflection.

Name: Date: Score: ____ / 17

A. Fill in the blanks

1. Light returning into the same medium after striking a surface is ____.

2. Objects that make their own light are ____.

3. The Moon is a ____ object.

4. In a dark room even a white wall cannot be seen because there is no ____.

B. True or False

5. The Sun is a non-luminous object. True / False

6. We see a book by the light it reflects. True / False

7. A candle flame is luminous. True / False

8. Reflection can happen without any light falling on a surface. True / False

C. Assertion and reason

9. Assertion (A): A white wall is invisible in a dark room.
Reason (R): There is no light for the wall to reflect.

(a) Both A and R are true, and R explains A
(b) Both A and R are true, but R does not explain A
(c) A is true, R is false
(d) A is false, R is true

Answer: _____

10. Assertion (A): The Moon is luminous.
Reason (R): The Moon reflects sunlight.

(a) Both A and R are true, and R explains A
(b) Both A and R are true, but R does not explain A
(c) A is true, R is false
(d) A is false, R is true

Answer: _____

D. Choose the correct option

11. Which is luminous?

(a) Moon
(b) book
(c) bulb (switched on)
(d) wall

Answer: _____

12. We see a non-luminous object because it:

(a) absorbs all light
(b) reflects light into our eyes
(c) makes light
(d) is hot

Answer: _____

13. In a dark room a white wall is invisible because:

(a) it absorbs light
(b) no light falls on it to reflect
(c) it is too far
(d) walls are dark

Answer: _____

14. The Moon shines because it:

(a) burns
(b) reflects sunlight
(c) is hot
(d) emits radio waves

Answer: _____

E. Short answer questions

15. Distinguish luminous and non-luminous objects with two examples each.

16. Why is the Moon visible at night?

F. Match the columns

17. Match each item in Column A with the correct item in Column B.

Column A	Column B	Your answer
1. Sun	(a) Reflection	1 → ____
2. Moon	(b) Nothing to reflect	2 → ____
3. Light bouncing back into the same medium	(c) Non-luminous	3 → ____
4. Dark room	(d) Luminous	4 → ____

Detailed solutions

1. reflection

2. luminous

3. non-luminous

4. light

5. False. It makes its own light.

6. True. It does not make light.

7. True. It produces light.

8. False. No light, no reflection.

9. (a) R explains A.

10. (d) A is false; R is true.

11. (c) bulb (switched on). It produces light.

12. (b) reflects light into our eyes. Reflected light reaches the eye.

13. (b) no light falls on it to reflect. No light.

14. (b) reflects sunlight. Reflected sunlight.

15. Luminous make light: Sun, bulb. Non-luminous are seen by reflected light: Moon, book.

16. It reflects sunlight towards the Earth.

17. 1 → (d), 2 → (c), 3 → (a), 4 → (b). Most things we see are seen by reflected light.