

**A. Fill in the blanks** (use the following list) [ /20]

|                      |                |                     |                                 |                           |
|----------------------|----------------|---------------------|---------------------------------|---------------------------|
| angle of incidence   | convex mirror  | image               | normal                          | refracted ray             |
| angle of reflection  | critical angle | incandescence       | objective lens                  | refraction                |
| angle of refraction  | dispersion     | incident ray        | partial reflection & refraction | retina                    |
| apparent depth       | diverging lens | index of refraction | phosphorescence                 | shimmering                |
| astigmatism          | eyepiece       | lens                | presbyopia                      | spherical aberration      |
| bioluminescence      | fluorescence   | luminescence        | principle axis                  | total internal reflection |
| chemiluminescence    | focal length   | magnification       | ray                             | triboluminescence         |
| chromatic aberration | focal point    | medium              | real image                      | vertex                    |
| concave mirror       | plane mirror   | mirage              | reflected ray                   | virtual                   |
| converging lens      | hyperopia      | myopia              | reflection                      | wavelength                |

1. **Bioluminescence** is light produced by living organisms.
2. According to the laws of **reflection**, the **angle of incidence** is equal to the **angle of reflection**.
3. A mirror whose reflecting surface curves inward is a **concave mirror**.
4. The **focal point** is the point on the **principle axis** through which reflected rays pass.
5. A mirror whose reflecting surface curves outward is a **convex mirror**.
6. The angle of incidence for which the **angle of refraction** is 90° is called the **critical angle**.
7. When you think that you are seeing an object but it is not really there, you are seeing a **virtual** image.
8. **Spherical aberration** occurs when rays at the edges of curved mirrors do not pass through the focal point.
9. A **mirage** is an optical effect caused by the bending of light rays passing through layers of varying temperatures.
10. The ratio of the speed of light in a vacuum to the speed of light in a **medium** is the **index of refraction**.
11. A **diverging lens** is thinner in the centre than it is around the edges.
12. The light-sensitive part of the eye is the **retina**.
13. When someone's eyes cannot focus on nearby objects, the person has **hyperopia**.
14. A **converging lens** brings parallel light rays toward a common point.
15. A **lens** is a transparent object with at least one curved side that causes light to refract.

**B. True or False** (If the statement is false, rewrite the statement to make it true) [ /10]

16. The characteristics of an image produced by a concave mirror are always the same.  
**F - An image produced by a CONVEX mirror always produces the same characteristics.**
17. Magnification of an image formed by a convex mirror will be  $\geq 1.0$ .  
**F - Magnification of an image formed by a convex mirror will be  $\leq 1.0$**
18. A ray traveling towards any curved mirror, parallel to the PA will reflect back through F.  
**T**
19. Concave and convex mirrors can both experience spherical aberration.  
**T**
20. Concave mirrors are used for security mirrors and convex mirrors are used for radar antennas.  
**F - concave mirrors are used for radar antennas and convex mirrors are used for security mirrors.**

**C. Similarities/Differences** (describe similarities/differences between each pair) [ /8]

21. direct / indirect light
  - both can illuminate an object
  - direct light comes from luminous objects
  - indirect light comes from non-luminous objects
22. reflection / refraction
  - both are produced by rays of light
  - angle of incidence = angle of reflection
  - refraction of light is the bending of light
23. mirror / lens
  - both are optical instruments
  - light reflects off a mirror
24. principle axis / normal
  - both are 90° to their respective surfaces
  - principle axis is normal to the axis of symmetry

# Optics Concept Review Answers

**SA Adler**



## **Optics Concept Review Answers:**

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