

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 ≥ 1.0 .
F - Magnification of an image formed by a convex mirror will be ≤ 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

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web the astm d2240 test method is used to evaluate the hardness of the following types of rubber materials thermoplastic elastomers vulcanized rubber elastomeric materials and some types of plastics this test method is not used

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web scope 1 1 this test method describes eight types of rubber hardness measurement devices known as durometers types a b c d do o oo and m the procedure for determining indentation hardness of substances classified as thermoplastic elastomers vulcanized thermoset rubber elastomeric materials cellular materials and some