

نموذج إجابة مادة الضوء الهندسي

الفرقة الأولى علوم

نصف ورقة

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الإجابة باللون الأحمر

Geometrical Optics

21. The ratio between the speed of light in air to the speed of light in other medium is called (a) phase reversal (b) **refractive index** (c) refraction index.
22. In case of convex lens when $p = q$ the image will be at distance (a) f (b) **$2f$** (c) infinity .
23. An imaginary line passing through center of curvature and pole of spherical mirror is called: (a) **radius of curvature** (b) secondary axis (c) axis of curvature.
24. Nearsighted condition can be corrected by placing lens in front of the two eye (a) plane concave (b) converging (c) **diverging**.
25. When an object lies at the focal point of a concave mirror then its image is formed at (a) **∞** (b) R (c) between R and f .
26. The density of any transparent medium is a measure of its refractive index. (a) magnetic (b) electric (c) **optical**.
27. The speed of light in water is the speed of light in air (a) greater than (b) **smaller than** (c) equal to.
28. Convex lens has a focal length of 10cm then for object located at a distances of 5cm , the image is located at a distance from the lens (a) 16.7cm (b) -5 cm (c) **-10 cm**.
29. A light passing through the pole of a convex lens is (a) reflected (b) refracted (c) **no one**.
30. A convex mirror forms image (a) **virtual** (b) real (c) a and b .
31. Farsighted condition can be corrected by placing lens in front of the two eye (a) plane concave (b) **converging** (c) diverging.
32. The incident parallel rays reflected from a concave mirror are collected in the (a) **focal point** (b) infinity (c) center of curvature.
33. If the object is located at the center of curvature, its image is formed at the (a) **center of curvature** (b) focal point (c) infinity.
34. If the magnification of the mirror is negative, the image is (a) erect (b) **inverted** (c) a, b.
35. The optical path for material ($n = 1.3$) is 3.90 mm then its geometrical path is (a) 0.33 mm (b) 4 mm (c) **3mm**.
36. If the focal length of concave mirror is 12cm, the image of an object at distance 12cm appears at distance (a) 12cm (b) **∞** (c) 18.5cm.

37. Convex lens has a focal length of 10cm then for object located at a distances of 5 cm , the image is located at a distance from the lens (a) 16.7cm (b) -5 cm (c) -10 cm.
38. The front of eye is covered by a transparent membrane called (a) cornea (b) iris (c) pupil.
39. is the closest distance which lens of relaxed eye can focus light on retina (a) focal point (b) near point (c) far point.
40. When farsighted person looks at an object inside the near point, the image is formed at (a) behind the retina (b) at the retina (c) in front of retina.