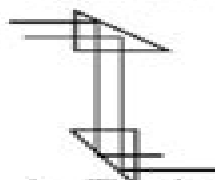
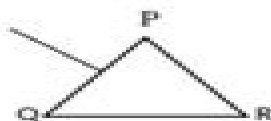


THIRD TERM EXAMINATION
 SUBJECT: PHYSICS
 SS 2 EXAMINATION QUESTION PHYSICS

CLASS: SS 2



1. The diagram in the above figure shows the prism arrangement in a A. microscope B. stereoscope C. projector D. periscope E. gyroscope
2. An object 1cm high placed on the axis 15cm from a converging lens forms an image 30cm from the lens the size of the image is A. 0.5cm B. 1.5cm C. 3cm D. 2.5cm E. 2cm



3. PQR is an equilateral glass prism of refractive index 1.5, light incident at 90° normally on face PQ as shown in the figure above will A. undergo total internal reflection at face PR and then emerge normal to face QR. B. emerge on face PR C. undergo total internal reflection at PR and emerge deflected away from the normal on face QR D. undergo two successive total internal reflections and emerge at face PQ E. be completely reflected back along its path.
4. The absolute refractive indices of glass and water are $\frac{3}{2}$ and $\frac{4}{3}$ respectively. The refractive index at the interface when a ray travels from water to glass is A. $\frac{1}{2}$ B. $\frac{8}{9}$ C. $\frac{9}{8}$ D. $\frac{17}{12}$ E. 2
5. An object on the principal axis of a convex lens of focal length 10cm, produces a real image of double magnification. The image distance of the lens is A. 30cm B. 25cm C. 20cm D. 15cm E. 10cm
6. A trough 12.0cm deep is filled with water of refractive index $\frac{4}{3}$. By how much would a coin at the bottom of the trough appear to be displaced when viewed vertically from above the water surface? A. 3.0cm B. 6.0cm C. 9.0cm D. 12.0cm E. 16.0cm
7. In comparing camera and the human eye, the film of the camera functions as the A. iris B. pupil C. cornea D. retina E. ciliary muscles
8. When the human eyes loses its power of accommodation, the effect is known as A. astigmatism B. long-sightedness C. short-sightedness C. presbyopia E. not focus
9. When a telescope is in use, the final image is at A. the focus B. the radius of curvature C. the near point D. infinity
10. which of the following arrangement in the sequence shown can be used to obtain a pure spectrum of white light? A. source, slit, converging lens, prisms, converging lens, screen B. source, slit, diverging lens, screen C. source, converging lens, prisms, diverging lens, screen D. source, prisms, diverging lens, screen

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