PHY103
Question: A convex lens is called Answer: converging lens
Question: A positive magnification greater than unity indicates
Answer: virtual image
Question: is formed through actual intersection of light rays and can be captured on a screen.  Answer: Real image
Question: Snell's law states that the sine of the angle of incident and have a constant ratio to each other.  Answer: reflection
Answer: Reflected
Question: is defined as the distance between image and mirror. Answer: Image distance
Question: When the object is placed at the focal point of a convex lens, the image is formed at  Answer: Infinity
Question: The study of wavelengths of the radiation coming out from a hot body is called Answer: Spectra
Question: The angular magnification of a microscope in normal use is given by
Answer: 1+(D/F)
Question: The of a lens is a point through which rays of light pass through without being deviated by the lens. Answer: Optical center
Answer: Optical centre
Question: When light vibrates in a single plane it is said to be Answer: Polarized
Question: acts as a muscular diaphragm of variable size that controls the size of pupil and also function to regulate the amount of light entering to the eye.  Answer: Iris
Question: The type of spectrum formed by white light produced when a solid material is heated to incandescence is called spectrum.  Answer: continuous
Question: When white light passes through a prism, a spectrum of different colours is formed. The colour that represents the wave with the least frequency of the spectrum is  Answer: Red
Question: Restrictions imposed on the free motion of a particle ( or a system of particles) are generally called Answer: Constraint

Question: The path along which light travels is called a  Answer: Ray
Question: The normal is always to the mirror. Answer: perpendicular
Question: Light travels in lines. Answer: Straight
Question: are drawn on light rays to show the direction in which light travels.  Answer: Arrows
Question: How many images will be formed in two plane mirrors which are inclined at angle 90 <sup>o</sup> to each other? Answer: 3
Answer: Three
Question: mirrors are used as rear view mirrors in automobiles. Answer: Convex
Question: The angle of incident equals to the angle of reflection. This statement is referred to as of reflection.  Answer: second law
Question: is the distance between the optical center and the principal focal of the lens.  Answer: Focal length
Question: The of a converging lens is the point to which all rays parallel and close to the principal axis converge after refraction through the lens.  Answer: Principal focus
Question: When light travels from a fast medium to a slower medium, the refracted ray changes phase by  Answer: wavelength/3
Question: Diffraction effect is more for a image. Answer: sharp
Question: The image formed by an astronomical telescope is  Answer: virtual and diminished
Question: are drawn on light rays to show the direction in which light travels.  Answer: arrows
Answer: Arrow
Question: In regular reflection, parallel light rays remainafter falling on a smooth and polished surface. Answer: parallel
Question: Light travels in lines. Answer: Straight
Question: What is the refractive index of glass material for which the speed of

light in it is m/s? Answer: 1.56

Question: An image formed by a plane mirror is Answer: laterally inverted
Question: The central spot of Newtons rings is due to destructive interference.  Answer: Dark
Question: A simple microscope uses Answer: one convex lens
Question: A compound microscope consists of Answer: two convex lenses
Question: A triangular glass block, which may be equilateral or isosceles, which can be used for refraction experiment is called the  Answer: Prism
Question: Convex mirror is used in motor vehicle as side mirror because of
Answer: Has a very wide field of view
Question: The SI unit of image magnification is Answer: No unit
Question: A beam of light may be Answer: Parallel
Question: A man has a concave mirror with focal length of 40cm. How far should the mirror be held from his face in order to give an image of two fold magnification?  Answer: 60cm
Question: A diverging mirror of 0.5 m focal length produces a virtual image of 0.25m from the mirror. How far from the mirror should the object be placed? Answer: 0.5m
Question: Maximum deviation of prism occurs when angle of incidence is $$\overline{\rm Answer}\colon 90^{\rm o}$$
Question: The refracting angle of a prism is $62^{\circ}$ and the refractive index of the glass for yellow light is 1.65. What is the smallest possible angle of incidence of a ray of this yellow light which is transmitted without total reflection? Answer: $43.58^{\circ}$
Question: For a small angle prism, the deviation is independent of Answer: Size of the angle of incidence
Question: One end of a cylindrical glass rod of refractive index 1.5 is a hemispherical surface of radius of curvature 20mm. An object is placed on the axis of the rod at 80mm to the left of the vertex of the angle of the surface. Determine the position of the image.  Answer: 120mm
Question: One end of a cylindrical glass rod of refractive index 1.5 is a hemispherical surface of radius of curvature 20mm. An object is placed on the axis of the rod at 80mm to the left of the vertex of the angle of the surface. Determine the position if the image of the rod is immersed in water of refractive index 1.33.  Answer: 184.6mm
Question: A convex lens is Answer: A converging lens

Question: The distance between the optical centre and the principal focal of the lens is called  Answer: Focal Length
Question: The line joining the centres of curvature of the two curved surfaces forming the lens is called  Answer: Principal axis
Question: When an object is placed at the principal focus of a convex lens, the image formed is  Answer: at infinity
Question: A beam of light of wavelength 550nm travelling in air is incident on a surface of transparent material. The incident beam makes an angle of 60 degree with the normal and the Answer: 1.23
Question: When the object distance for a convex lens is greater than 2F, the image formed is  Answer: Inverted
Question: Image formed by concave lens is Answer: Virtual
Question: A pin is placed 40cm away from a convex lens of focal length 15cm. Determine the magnification of the pin formed by the lens . Answer: 1.67
Question: The spreading of white light into the full spectrum is called
Answer: Dispersion
Question: when a ray of light incident at an angle greater than the critical angle, the phenomenon is called  Answer: Total internal reflection
Question: Submarine periscope uses the phenomenon of Answer: Total internal reflection
Question: The ability of the lens to focus on near and far objects is called
Answer: Accommodation
Question: Appearance of colour in thin films is due to Answer: interference
Question: The experiment that shows that wavelength of light is smaller than that of sound is called  Answer: Diffraction
Question: Examples of transverse wave are the following except: Answer: P wave
Question: A compound microscope consists of twolenses. Answer: Convex
Question: The advantage of reflector telescope over the normal telescope is
Answer: Its large angle of magnification
Question: For two waves to superpose the waves must have the same  Answer: Wavelength

Question: Constructive interference occurs, when the intensity of the two interfering waves is  Answer: Maximum
Question: are drawn on light rays to show the direction in which light travels. Answer: Arrows
Question: A ray of light passing through the retraces its path. Answer: Centre of curvature
Question: The central spot of Newtons rings is due to destructive interference. Answer: Dark
Question: A simple microscope uses Answer: One convex lens
Question: Appearance of colour in thin films is due to Answer: Interference
Question: The study of wavelengths of the radiation coming out from a hot body is called  Answer: Spectra