



The exam is in 3 pages (50 degree)

First question: Choose the correct answer:

(30 Marks)

1)is a transparent layer forming the front of the eye, covered with a film of tears and has a radius of curvature $r \cong 8 \text{ mm}$			
A. Pupil	B. Cornea	C. Retina	D. Fovea
2)is one of the sight defects that suffer from weakness of power of accommodation			
A. Myopia	B. Hypermetropia	C. Presbyopia	D. Astigmatism
3) Which one of these statements corresponding to the compound microscope is incorrect?			
A. The object is just outside the focal length of the objective lens (a real image is formed) i.e., $f_1 < X < 2f_1$.			
B. The image from the objective lens falls just inside the eyepiece focal length and a virtual image is formed by the eyepiece i.e., $0 < X < f_2$.			
C. The focal lengths of the two lenses do not overlap i.e. $d > f_1 + f_2$.			
D. It consists of a convex lens of short focal length with the object placed closer than the focal point i.e., $0 < X < f$.			
4) Which one of these statements corresponding to Golden Rules for Refraction is incorrect?			
A. All rays and the normal lie in the same plane.			
B. The refracted ray in the second medium is bent toward the normal if $v_2 < v_1$ and vice versa.			
C. The lowest index of refraction, the lowest the optical density.			
D. The angle between the incident ray and the normal is equal to the angle between the refracted ray and the normal			
5) The critical angle for the diamond-air boundary..... (for diamond $n=2.42$)			
A. 20.4°	B. 42.4°	C. 24.4°	D. 2.44°