



Acuity of vision (visual acuity):

- Visual acuity: is the appreciation of fine details in a visual image.
- It is determined by the smallest retinal image, which can be appreciated, and it is measured by the smallest object, which can be clearly seen at a certain distance.
- Distant vision is tested on **Snellen's Chart**.













Color Vision: The Cones are responsible for perception of Color. The Rods are for the perception of intensity of light. Color vision is tested by Ishihara's charts. The charts consist of numerals constituted by dots of different colors. A normal person can read the numerals, whereas a color blind cannot. The subject (examined person) should be asked to read each plate from a distance of 75cm, within 30sec.









Consensual light (Indirect) reflexes:

Procedure:

- Keep one hand between the 2 eyes of the subject, and throw torch light into one eye and observe constriction of the pupil in the other eye.
- The consensual light reflex is due to **decussation** of the **optic nerve fibers in the optic chiasma** so that the impulses reach oculomotor nuclei of the two sides.



Accommodation reflex:

• This is the ability of the eye to focus on objects at varying distances.

How to do the test:

• Hold one finger at a distance of 25cm from the subject. Ask him to first look at a distant object and then look at the finger.





