Assignment: Short notes on 'Short sightedness', 'Far sightedness', 'Night blindness', and 'Color Blindness'.

Short Sightedness:

Short sightedness is an eye condition in which far-away objects can be seen blurry and near objects can be seen clearly. 'Myopia' is the scientific name of Short sightedness. It is caused by the eye being too long or the cornea is curved and result in light to be focused incorrectly on retina. Another cause is, that people who spend a lot of time using digital devices, are become the target of short sightedness.

Treatment: The problem can be corrected by contact lenses (concave lense) or by refractive surgery.

Forsightedness:

Known as 'Hyperopia', is a common eye problem in which close objects appear blurry while the distant ones appear clearly.

Causes: The cause is that eye being too short or the cornea being too flate, which causes the light to be focused incorrectly on retina.

Cure: It can be cured by contact lens (convex lense) or refractive surgery.

3. **Night blindness:** Also known as 'Nyctalopia', is a condition in which a person has difficulty seeing in low-light or nighttime.

a. **Causes:** It is caused by problem in retina and unable to send visual signals to the brain. Furthermore, it can also be caused by deficiency in vitamin A, a genetic disorder such as retinitis pigmentosa, or certain medication.

b. **Treatment:** It can be cured by addressing the underlying causes such as taking vitamin supplements or having surgery to remove cataracts. The use of night vision goggles can also be beneficial.

4. **Color Blindness:** Also known as color vision deficiency (CVD), is a condition in which a person has difficulty distinguishing certain colors, particularly red, green or blue.

a. **Causes:** It is caused by the problem with the photopigments in the cones cells of retina which are responsible for color vision. One other cause is genetics; it can be transfered and inherited to descendants.

b. **Treatment:** There's no treatment as such but some special glasses, contact lense or software can help people with color blindness to perceive colors better.