mention the full qs statement for proper evaluation. ssignment # currently these are just notes and notes cannot be properly evaluated. 1- Short Sightedness Short sightedness which is also called myopia, is an eye disorder in which a person is not able to see distant objects clearly. Cause: The elongation of eyeball sesults in myopia. The image of distant object is formed in front of retina instead of retina itself. Basically, eye has two parts that Accus images: i.e cornea and lens. Cornea is the clear, dome-shaped Front surjuce of eye and lens is a clear structure to focus light on setina. In order to see light has to pass through cornea and lens. They refract (bend) the light, so that the light Jocused directly on



the nerve tissues a retina) at the back of eye. Retina translates light into signals sent to brain, which enables you to pervioue image. But In case of myp myopia, light ways that should focus on setina are focused in front of Letina Symptoms: Blurry vision when look at distant images jobjects Headaches Fyestrain The need to squint or partially. close the eyelids to see clearly. Children feel difficulty to see things on white boards or screep projections in classrooms · Blink excessively, sit close to TV, sub eyes prequently, difficulty to reading signs in a store or street



gigns. These are all symptoms of myopia Treatment. draw the relevant diagrams as This problem can be rectified by using eyeglass containing Concare lens. Concave lense is thinner from center. It is a diverging tens which means it sprend that the light rays which have been repracted to it and helps light to focus on retina Some other treatments include Contact lenses and sepractive surgery 2- Long Sightedness long Sightedness is an eye disorder in which a person is not able to see near objects clearly. This is Called hypermetropia. In hypermetropla the image is formed behind seting However, the person can see distant Objects clearly.



Course: It happens when the eyeball shortens. So, the image is formed behind the setina. Abroumal shape of courses and long are also cause of hypermetropia. Symptoms: Persistent headache, blurred visionnear objects look blussed, difficulty is reading, stitching etc, eyertain and squinting etc are symptoms of hypermetropia. Iseatment: convex lens is used to rectify this problem. It is thick from center. It is a converging lens which means it converg the light rays and help to focus on retina. Byeglasses is a simple and safe way to sharpen vision caused by long sightedness. Contact lenses and repractive



gungeries like LASIK, LASEK and PRK are also used for the heatment of hypermetropia. 3- Night Blindness Night blindness also known as Nyctalopia, is the inability to see well at night or in poor light. Causes : It is caused due to conditions that affect relina such as catavacts, deficiency of Vitamin A, usher synchrome, nearsightedness and retinitis pigmentosa, which occurs when dask sigment collects in your retina and creats tunnel vision. Kods contain a pigment called vhodopsin. when light falls on rhodopsin, it breaks for generating a new impulse. In the absence of light, the breakdown products are again converted into shodopsin. Body Synthesized shodopsin from Vitamin A



High glucose or diabetes also increase The risk of eye disorder such as catavacts which cause night blindness. Symptoms: the sule symptom of night blindness is difficulty seeing in dark or when switch from bright environment to low light. Treatment : Night blindness eaused by catavets, nearsightedness, vitamin A deficiency is treatable. Corrective lenses such as syeglasses or contact lenses can improve nearsightedness both during day and night -Catavaets can be semoved through surgery in which cloudy lens will be removed with artificial lense Vitamin A deficiency can be recovered through sitamin Supplements



Retinitis pigmentosa. However, & night blindness is due to geneties then it is not treatable. The gene that causes pigment to build up in the retina doesn't respond to artificial lenses. These people should avoid driving at night. 4- Colour Blindness Colour blindness on colour vision deficiency (CVD) is on inability to see the difference between certain colours. It often happens when someone cannot distinguish between certain colours and they see everything in shades of black, white and gray. Ceuses : Cones contain pigment called icolopsin. There are 3 main types of cones and each type has specific iodopsin. Each type of imes recognizes one of the three primary colours i.e blue,



green and red. If any type of come is not working well, it becomes difficult to recognize that colour and in this way a person is unable to distinguish between colours and supper from colour blindness. Onhesited disorder, some disease like stickle cell anemia, diabetes, macular degeneration etc, some medications such as drugs that treat certain heart problems, high blood pressure, injection, neurous disorder and aging are the causes of colour blindness. Exposure to chemicals such as disulfied and fertilizers also included in causes of loss of colour vision. Symptoms: Person suffering with colour blindness can't distinguish between greens and reds usually and occassionally blues. They see



everything in black & white and grey shade. Treatment Colour blindness if due to some medications, then discountinuing the medication and treating underlying better eyes disease may result in colour vision Inleaving coloured filter overg eyequasses or contact lens may enhance your perception of contrast between the conjused colours. But A such lenses won't improve your ability to see all plours. some rare relinal disorders associated with color deficiency could possibly be modified with gene tooms replacement techniques. these treatments are under study and might become available Amiture overall good!!!! add and include diagrams as well.

