

## ANSWERS TO ACTIVITY IN NEW FOUNTAIN 24<sup>TH</sup>/04/2020.

1. Natural....stars, fireflies, glow worms. Artificial...torches, lamps, candles, bulbs etc
2. Light enables us to see/it helps plants to make their own food through photosynthesis/helps in taking photographs etc
3. Both the human eye and the pinhole camera form inverted images.  
-Both form diminished images or their images are smaller than the real objects.
4. i) Light can not pass through but a shadow is formed.  
ii). The light rays refract or bends towards different directions.  
iii). The light rays refract and bends towards one focal point.  
iv). Little light passes through as other light is absorbed in the object.  
v). An irregular reflection of light is formed. vi). A regular reflection occurs.
5. Reflection is the bouncing back of light rays off a shiny material. ...>>>. No
6. The iris
7. The image formed by the human eye is diminished, real and inverted as it falls on the retina.
8. Long sightedness, Astigmatism, Old age sight/presbyopia, Short sightedness etc  
See sipro and MK.
9. Trachoma, Conjunctivitis, River blindness, Night blindness, Iritis etc.
10. A ray or pencil of light. No 11. Transparent material.
12. Shadows are formed when a ray of light has been blocked by an opaque material.
13. Umbra is a dark shadow while penumbra is partial or lighter shadow.
14. A periscope is used by submariners, soldiers, to see over the top of objects.
15. Refraction of light is the bending of light rays as it passes from one transparent media to another.
16. Due to refraction of light.
17. ROYGBIV Red, orange, yellow, green, blue, indigo and violet.
18. Shadows provide us with shade/traps direct sun's heat from reaching us.